

DETAILS

Product Number	FCN14311_BARBARA-XW-PF-VERO13/18
Family	Barbara
Type	RefPack
Color	metal
Diameter	70 mm
Height	42,25 mm
Style	round
Optic Material	
Holder Material	
Fastening	screw
Status	production ready
ROHS Compliant	Yes
Date Updated	6/03/2017



OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
VERO13	72 deg		93 %	0.670	-
VERO18	72 deg		93 %	0.630	-
V15 Gen6	71 deg		89 %	0.720	Bender Wirth: 456 Typ L2
Xenio Point 13mm	71 deg		92 %	0.680	LEDiL: LEDiL
Xenio Point 18mm	72 deg		91 %	0.640	LEDiL: LEDiL
V10 Gen7	sim: 66		sim: 88 %	sim: 0.900	Bender Wirth: 434 Typ L1
CLU700/701	70 deg		90 %	0.770	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	70 deg		90 %	0.720	Bender Wirth: 434 Typ L1
CXA/B 1816 & CXA/B 1820 & CXA 1850 67 deg			82 %	0.700	Bender Wirth: 437 Typ L1
CXA/B 15xx	70 deg		90 %	0.720	Bender Wirth: 441 Typ L1
LUXEON CoB 1202/1203	71 deg		90 %	0.710	Bender Wirth: 438 Typ L1
CXM-14	sim: 70		sim: 90 %	sim: 0.700	Bender Wirth: 433 Typ L1
CXM-9	sim: 70		sim: 90 %	sim: 0.720	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	70 deg		90 %	0.710	Bender Wirth: 438 Typ L1
COB J-Type	70 deg		89 %	0.670	Bender Wirth: 463 Typ L2
COB L-Type (LES 11)	70 deg		90 %	0.680	Bender Wirth: 438 Typ L1
Soleriq P9	71 deg		90 %	0.710	Bender Wirth: 461 Typ L1
Soleriq P13	70 deg		89 %	0.670	Bender Wirth: 437 Typ L1
Soleriq P6	67 deg		86 %	0.860	Bender Wirth: 446 Typ L1
Soleriq S13	70 deg		90 %	0.690	Bender Wirth: 437 Typ L1
Soleriq S15	sim: 74		sim: 95 %	sim: 0.680	Bender Wirth: 433 Typ L1
LC026B/LC040B	70 deg		90 %	0.560	Bender Wirth: 450 Typ L2
LC010C	sim: 66		sim: 89 %	sim: 0.910	Bender Wirth: 479 Typ L1
LC020C	sim: 70		sim: 88 %	sim: 0.810	Bender Wirth: 479 Typ L1
LC040C	sim: 70		sim: 84 %	sim: 0.730	Bender Wirth: 480 Typ L1



PRODUCT DATASHEET

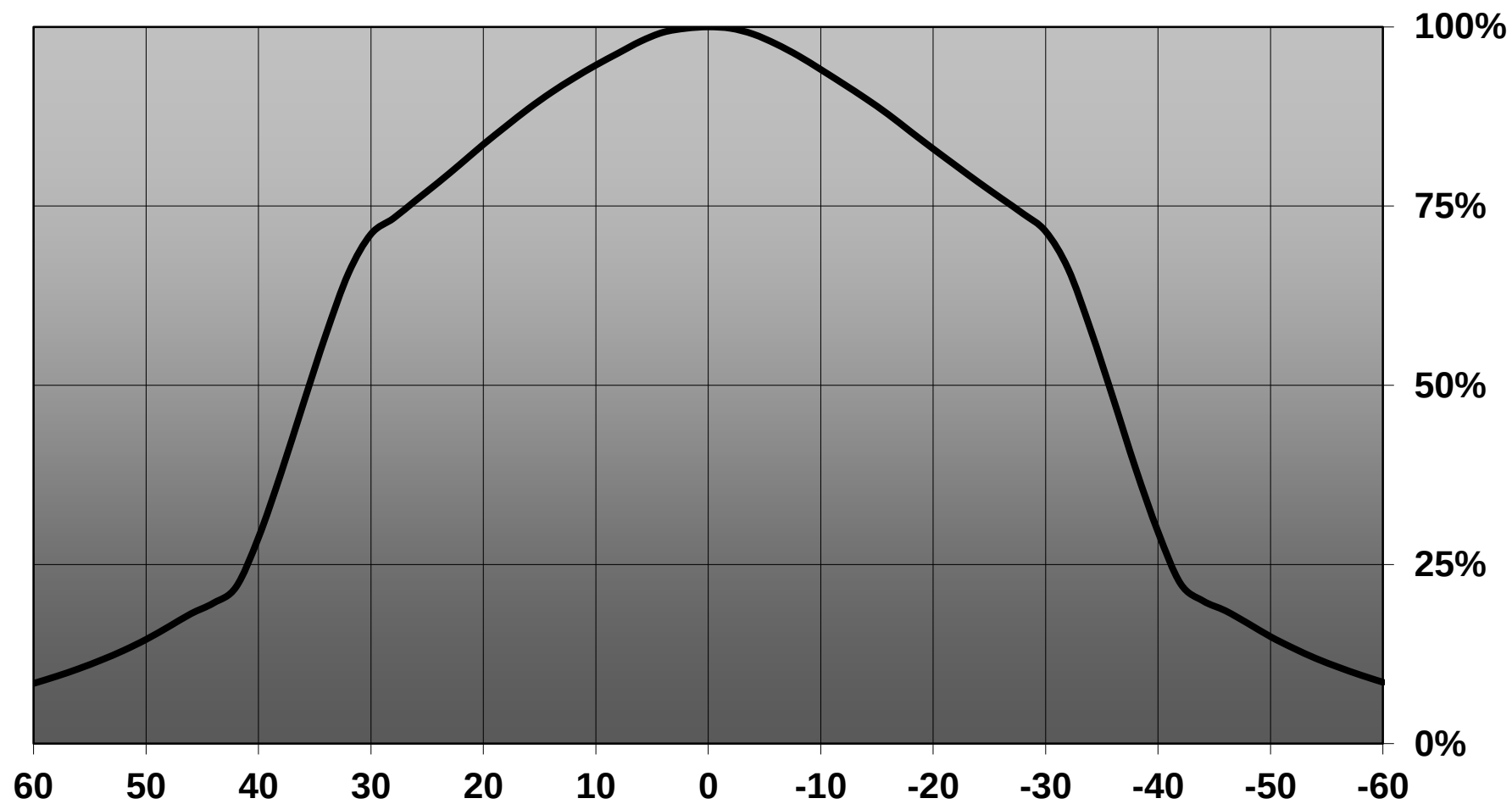
Barbara series

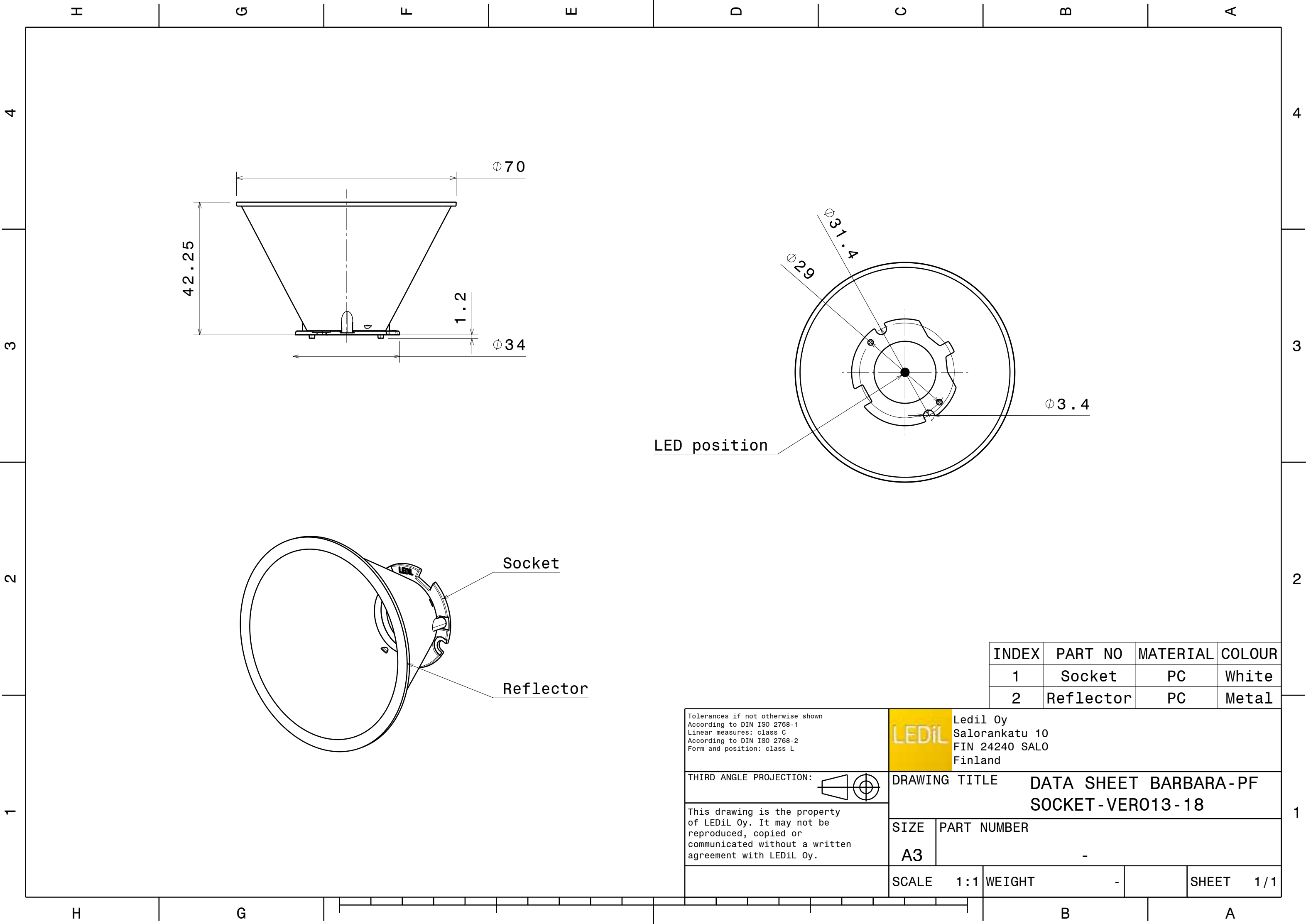
last update 6/3/2017

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
ZC12/18	sim: 70		sim: 90 %	sim: 0.680	Bender Wirth: 433 Typ L1
ZC4/6	sim: 70		sim: 90 %	sim: 0.720	Bender Wirth: 434 Typ L1
SLE G5 LES11	70 deg		90 %	0.700	Bender Wirth: 434 Typ L1

Relative intensity of FCN14311_BARBARA-XW-PF-VERO13_18_(V15)

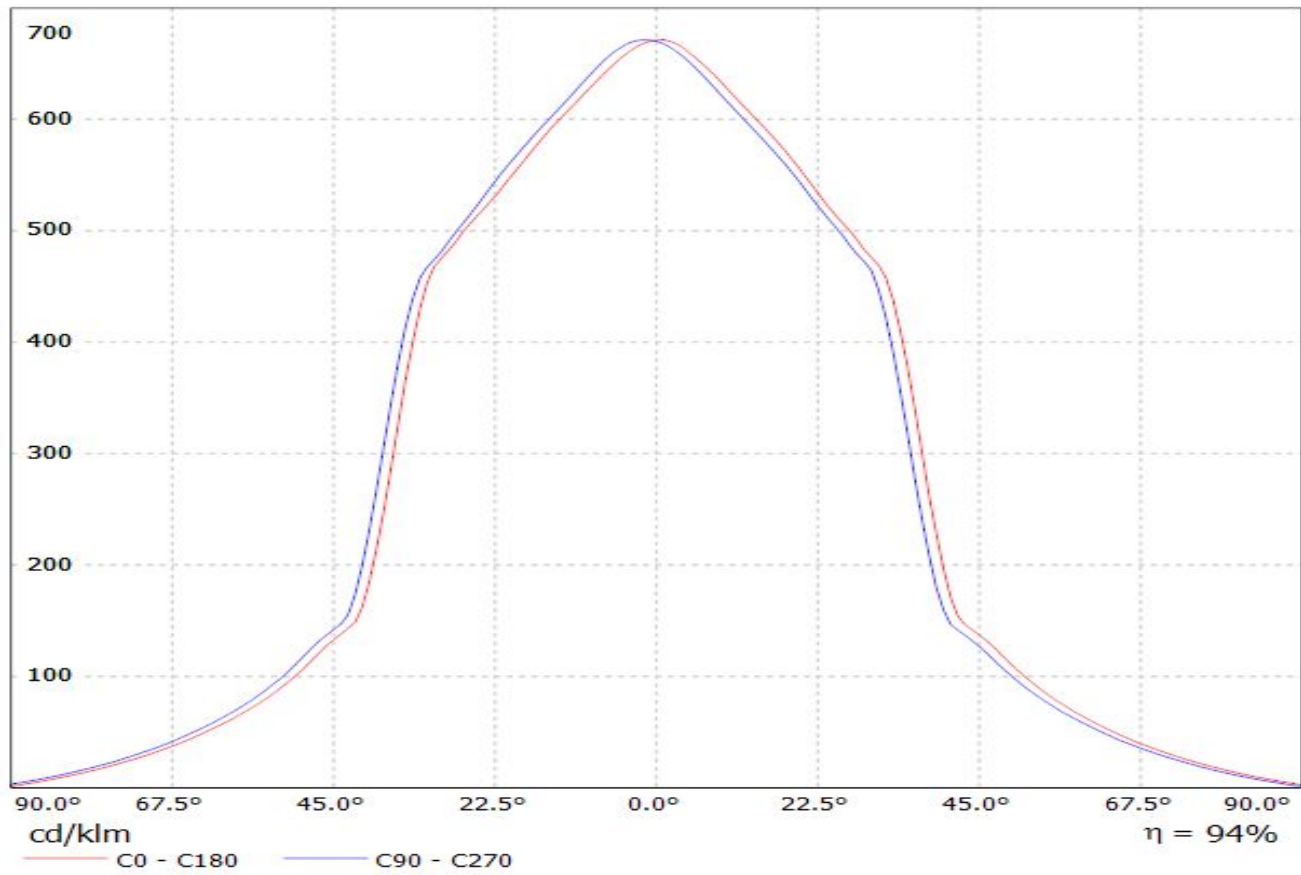




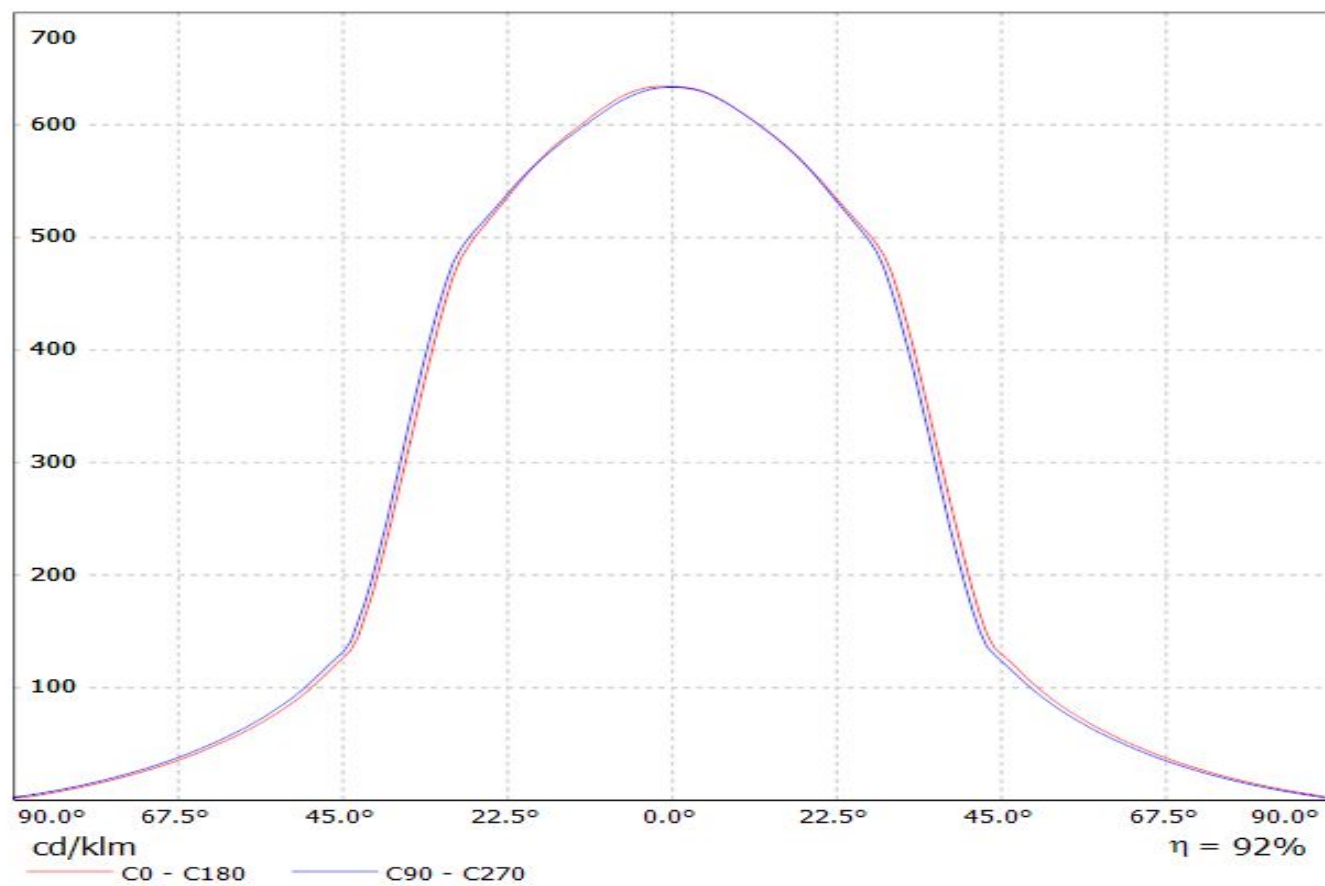
INDEX	PART NO	MATERIAL	COLOUR
1	Socket	PC	White
2	Reflector	PC	Metal

Tolerances if not otherwise shown According to DIN ISO 2768-1 Linear measures: class C According to DIN ISO 2768-2 Form and position: class L		<div>LEDiL</div> <div>Ledil Oy Salorankatu 10 FIN 24240 SALO Finland</div>	
THIRD ANGLE PROJECTION: <div></div>		DRAWING TITLE DATA SHEET BARBARA-PF SOCKET-VERO13-18	
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.		SIZE A3	PART NUMBER -
		SCALE 1:1	WEIGHT - SHEET 1/1

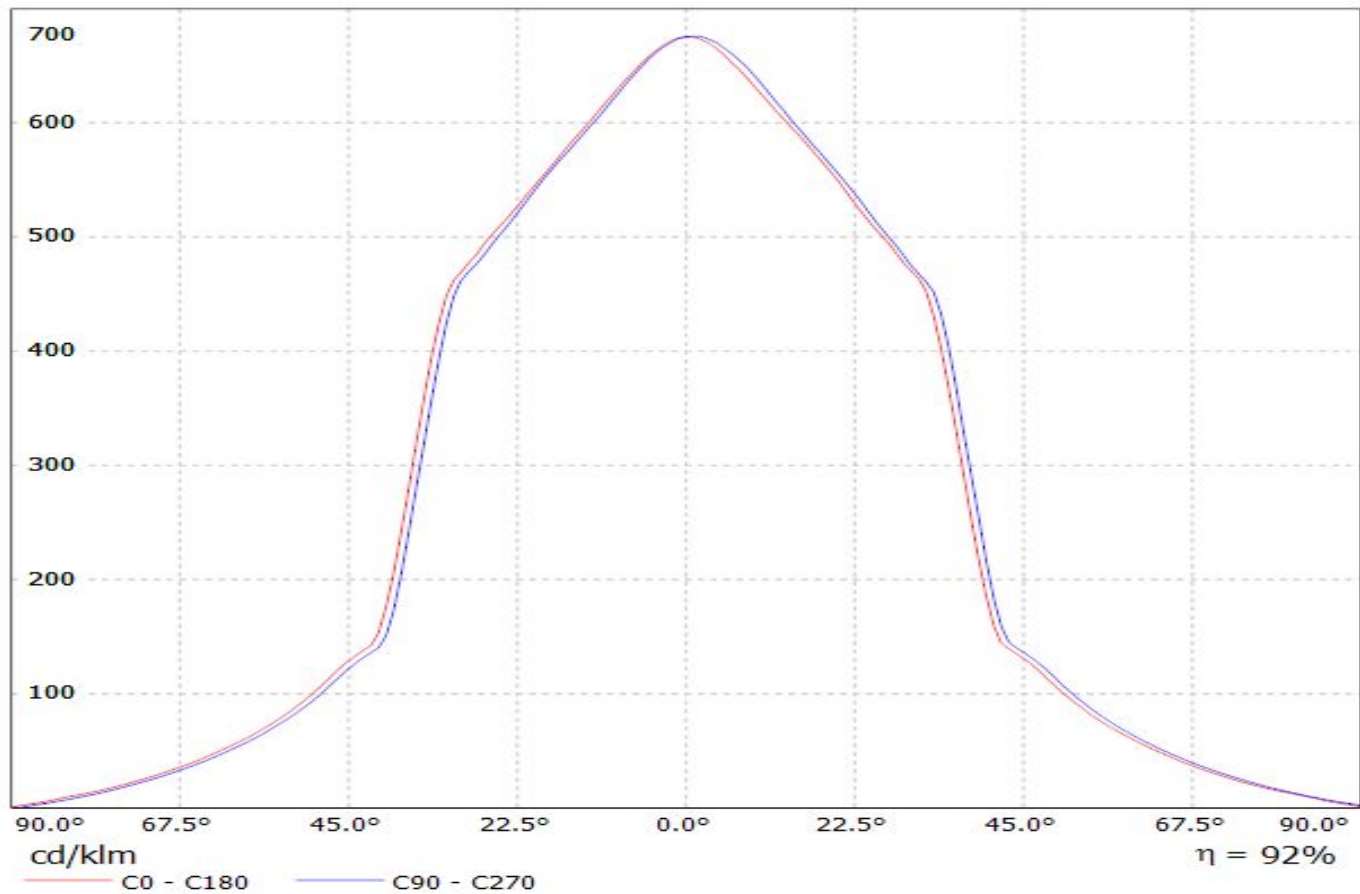
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO1318
Lamps: 1 x VERO13_1019.56@250mA_P=7.54246W_I=249.8mA



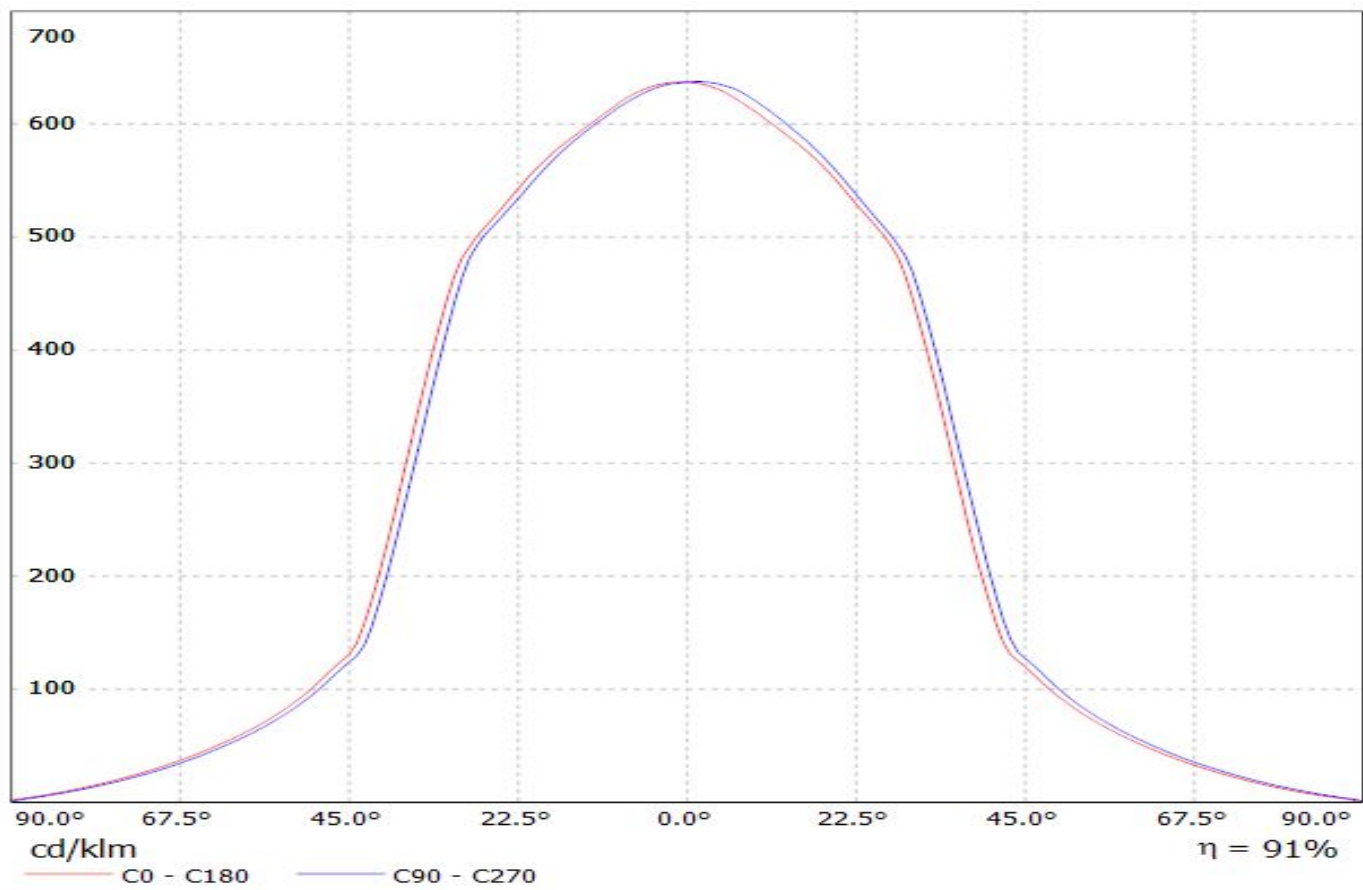
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO1318
Lamps: 1 x VERO18_878.76lm@250mA_P=6.73231W_I=249.9mA

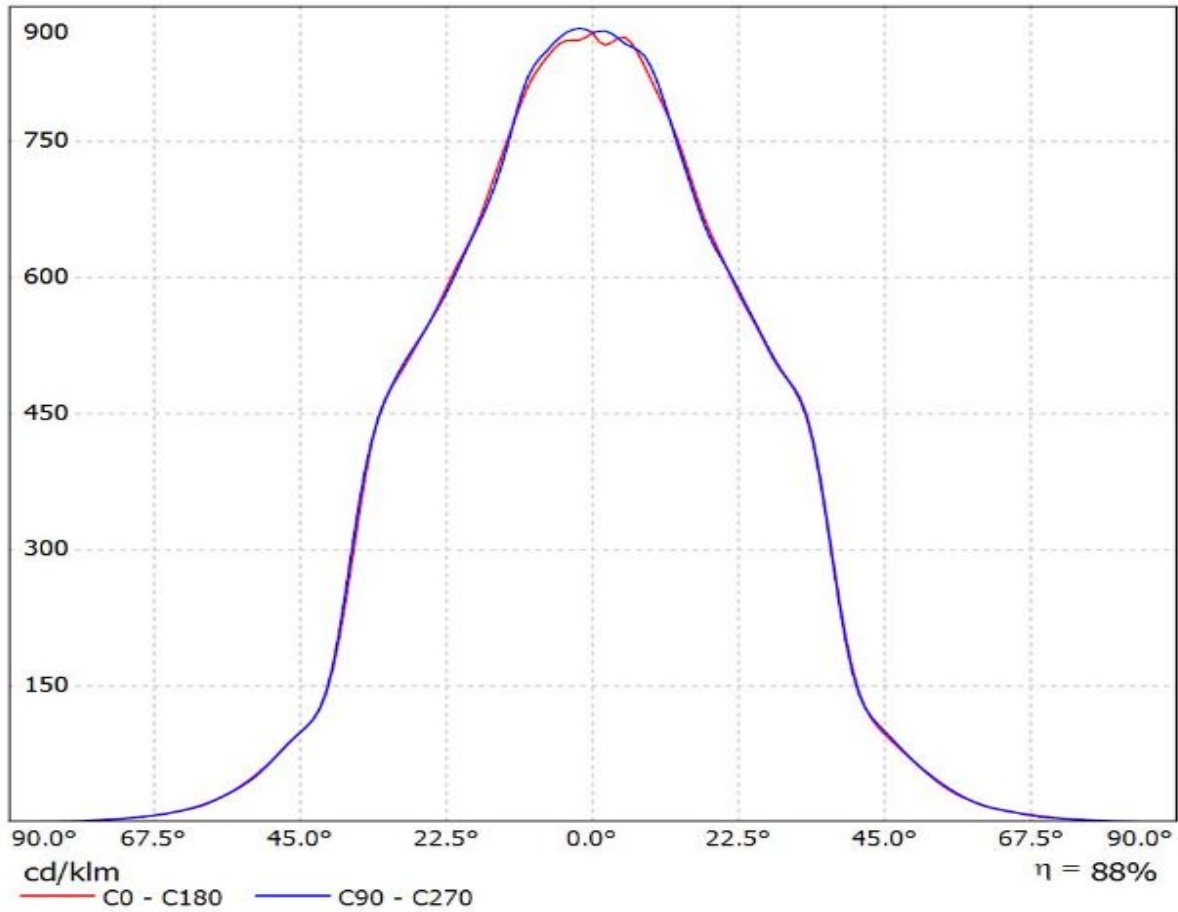


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(XENIO_13MM)
Lamps: 1 x XENIO_13MM_2074.66lm@?mA_P=23W_I=?A

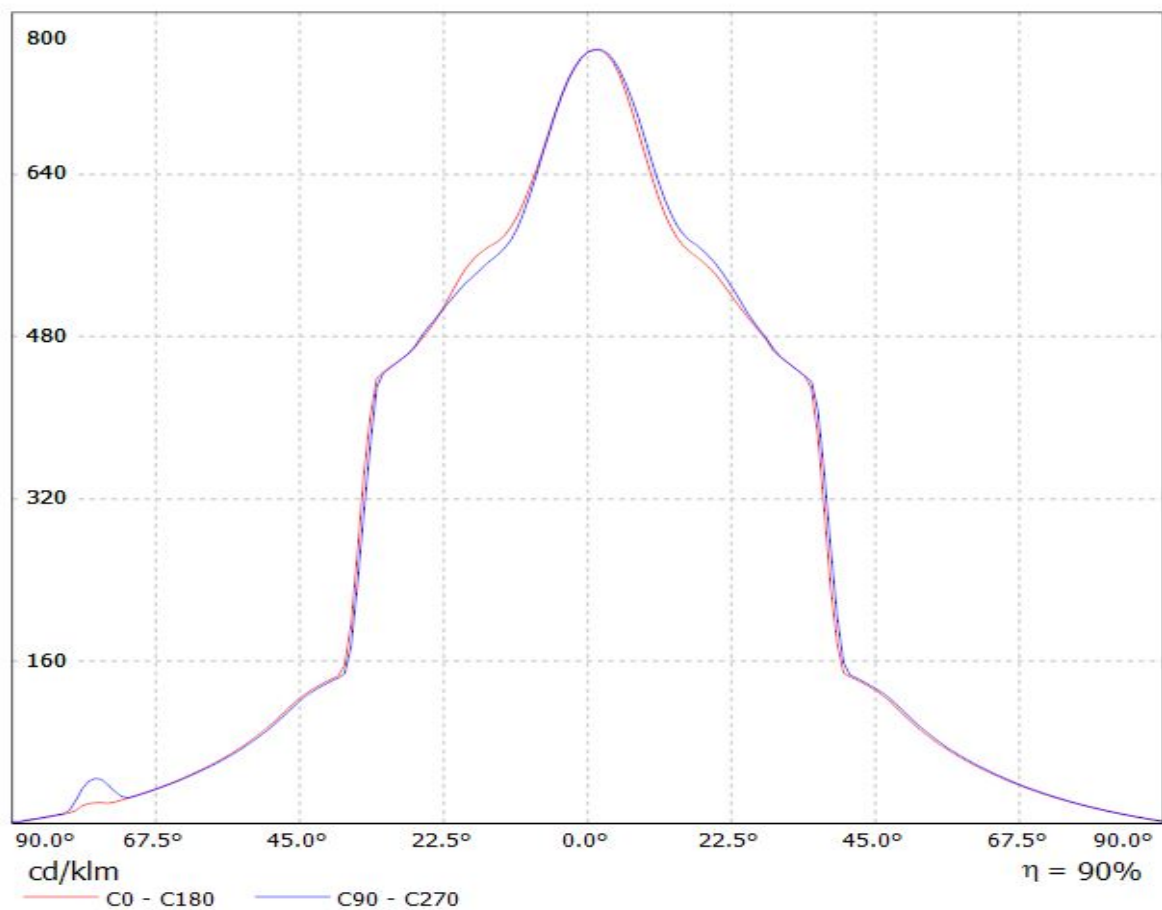


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Xenio_18mm)
Lamps: 1 x Xenio_18mm_3756.62lm@?mA_P=43W_I=?A

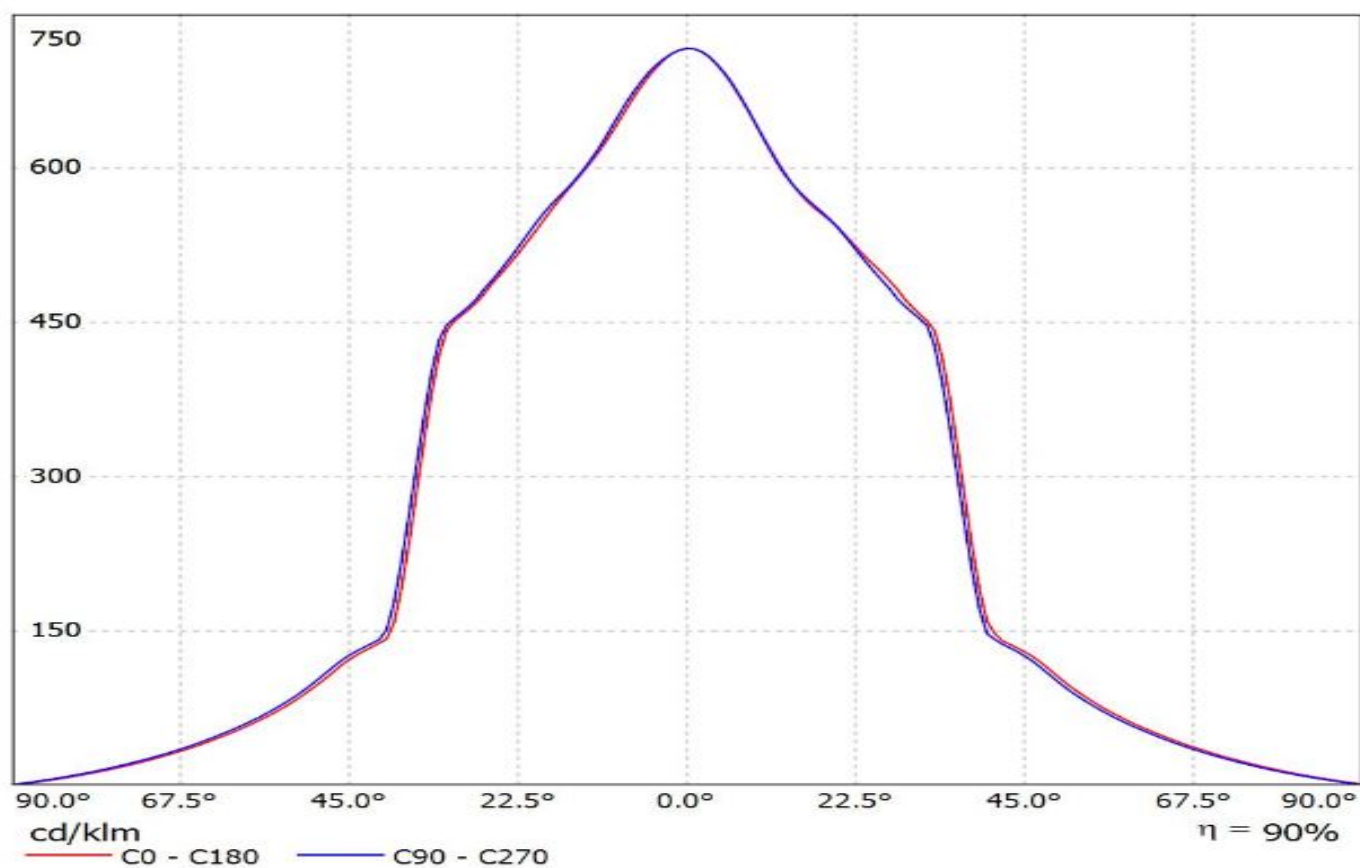




Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(CLU700)
Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_(C13709)_(434_Typ_L1)_374.62lm@100mA_P=2.81352W_I=0.1002A



Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(CLU024) Citizen_CLU024_(434_Typ_L1)_
(C13709_PF-SOCKET-VERO13-18)_1065.5lm@250mA_P=8.55W_I=0.25A
Lamps: 1 x Citizen_CLU024_(434_Typ_L1)_ (C13709_PF-SOCKET-VERO13-18)
_1065.5lm@250mA_P=8.55W_I=0.25A

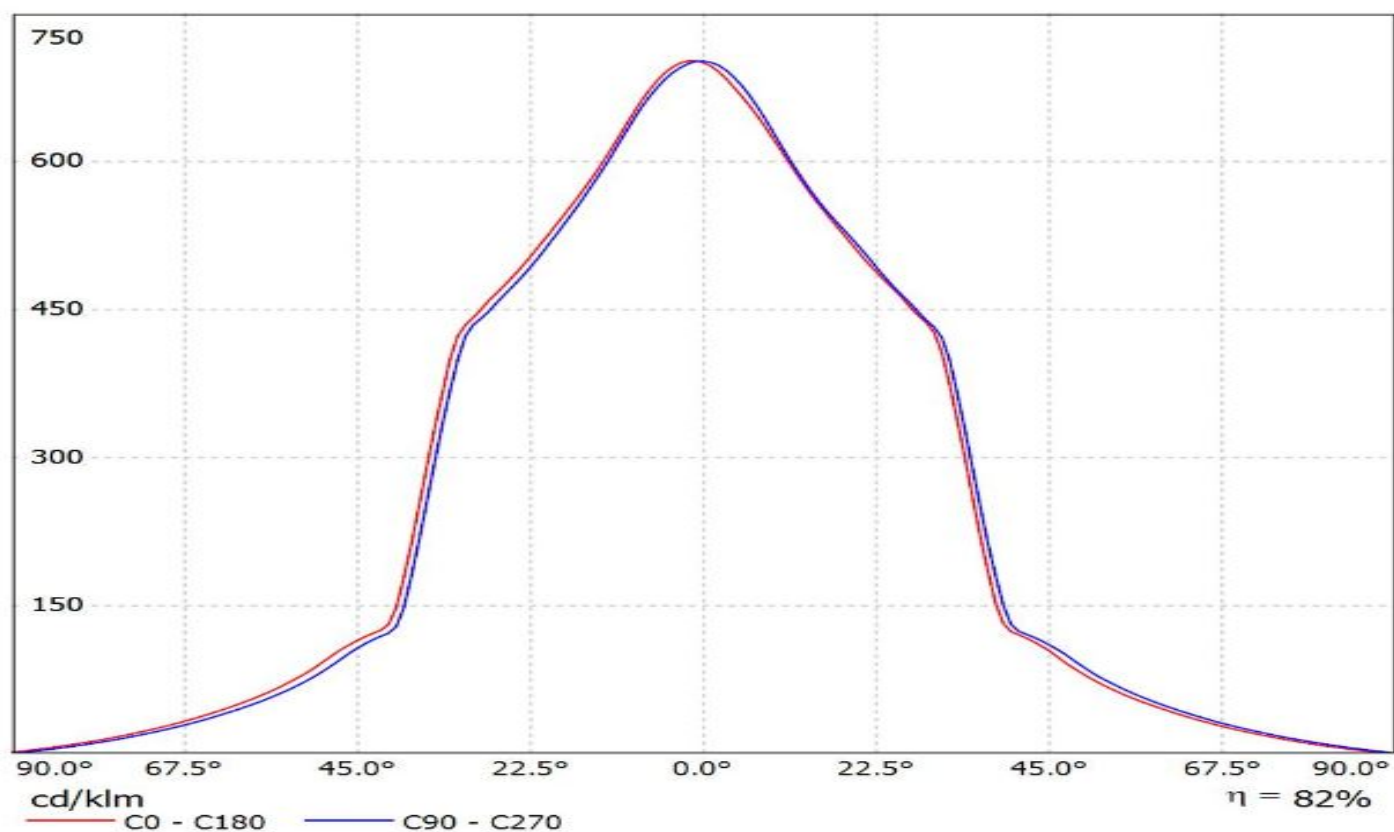


Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1850) / LDC (Linear)

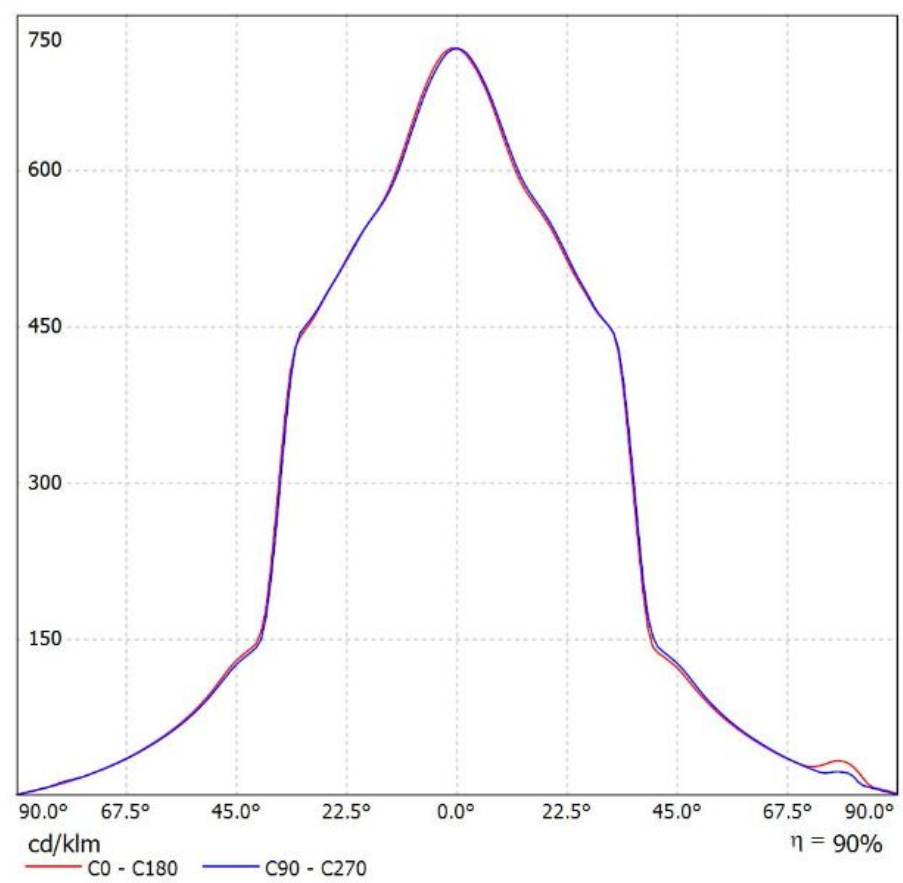
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1850)

Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)

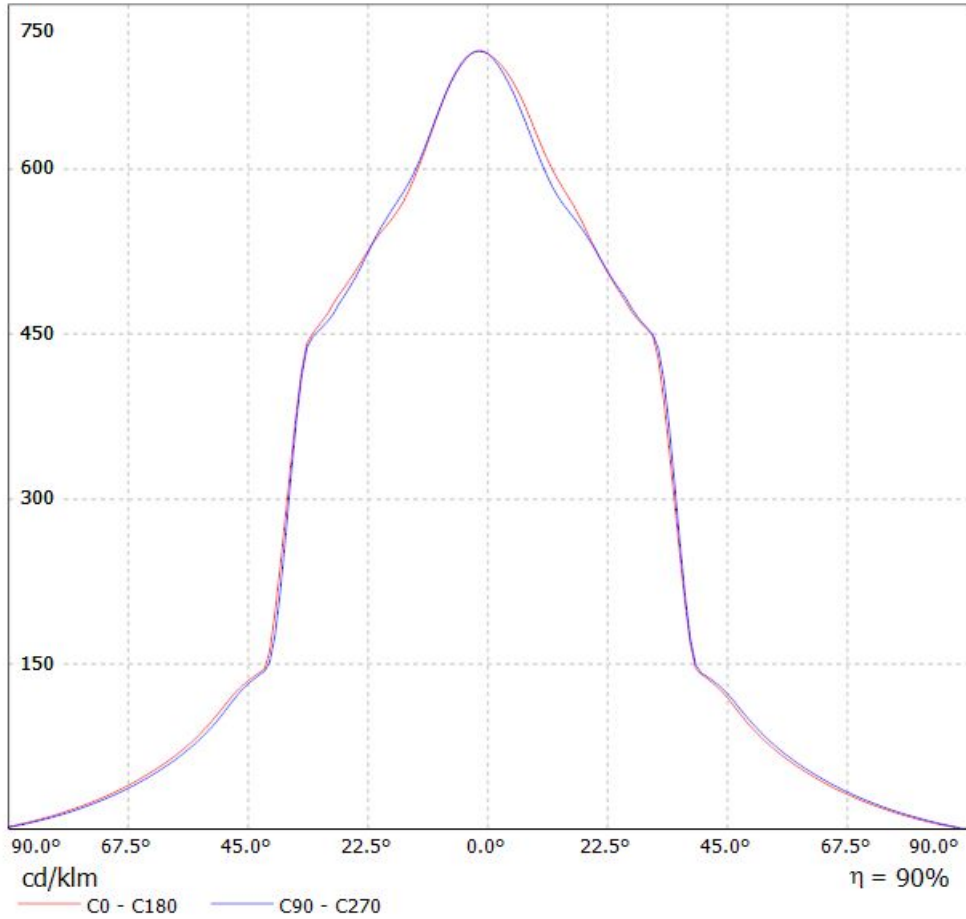
_847.836lm@250mA_CCT=3000K_P=8.27W_I=0.25A



Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1520_(CXA1520-30F-N4-N0H-00001)_(441_Typ_L1)_(C13709_PF-SOCKET-VERO13-18)_1036.14lm@250mA_P=8.825W_I=0.25A
Lamps: 1 x CXA1520_(CXA1520-30F-N4-N0H-00001)_(441_Typ_L1)_(C13709_PF-SOCKET-VERO13-18)_1036.14lm@250mA_P=8.825W_I=0.25A

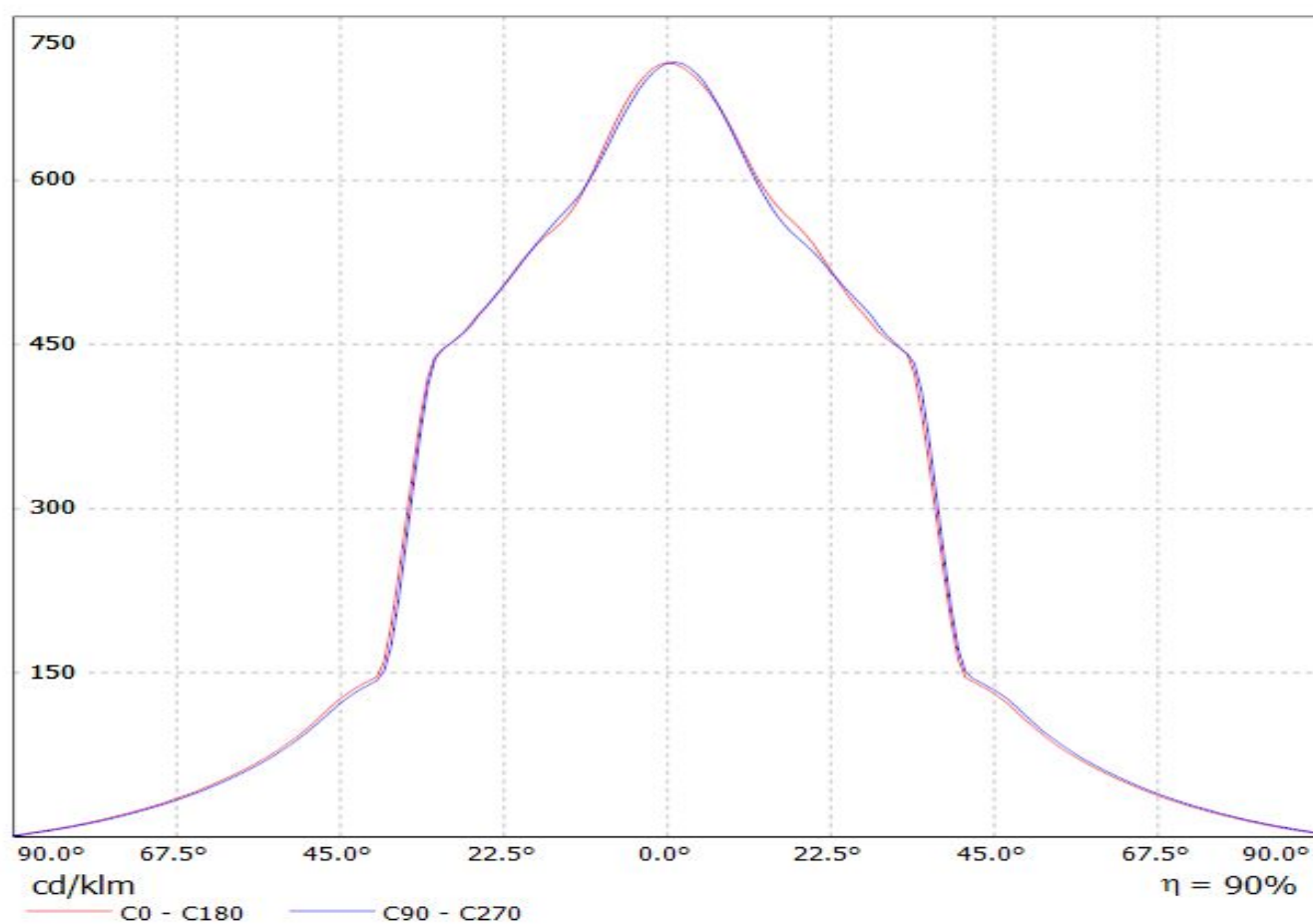


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(Luxeon CoB 1203)
Lamps: 1 x Luxeon_COB_1203_(LHC1-3080-1203)_C13868_LENA-STD-BASE-VERO13-18_(438_Typ_L1)_990.381lm@250mA_P=8.6818W_I=0.2498A

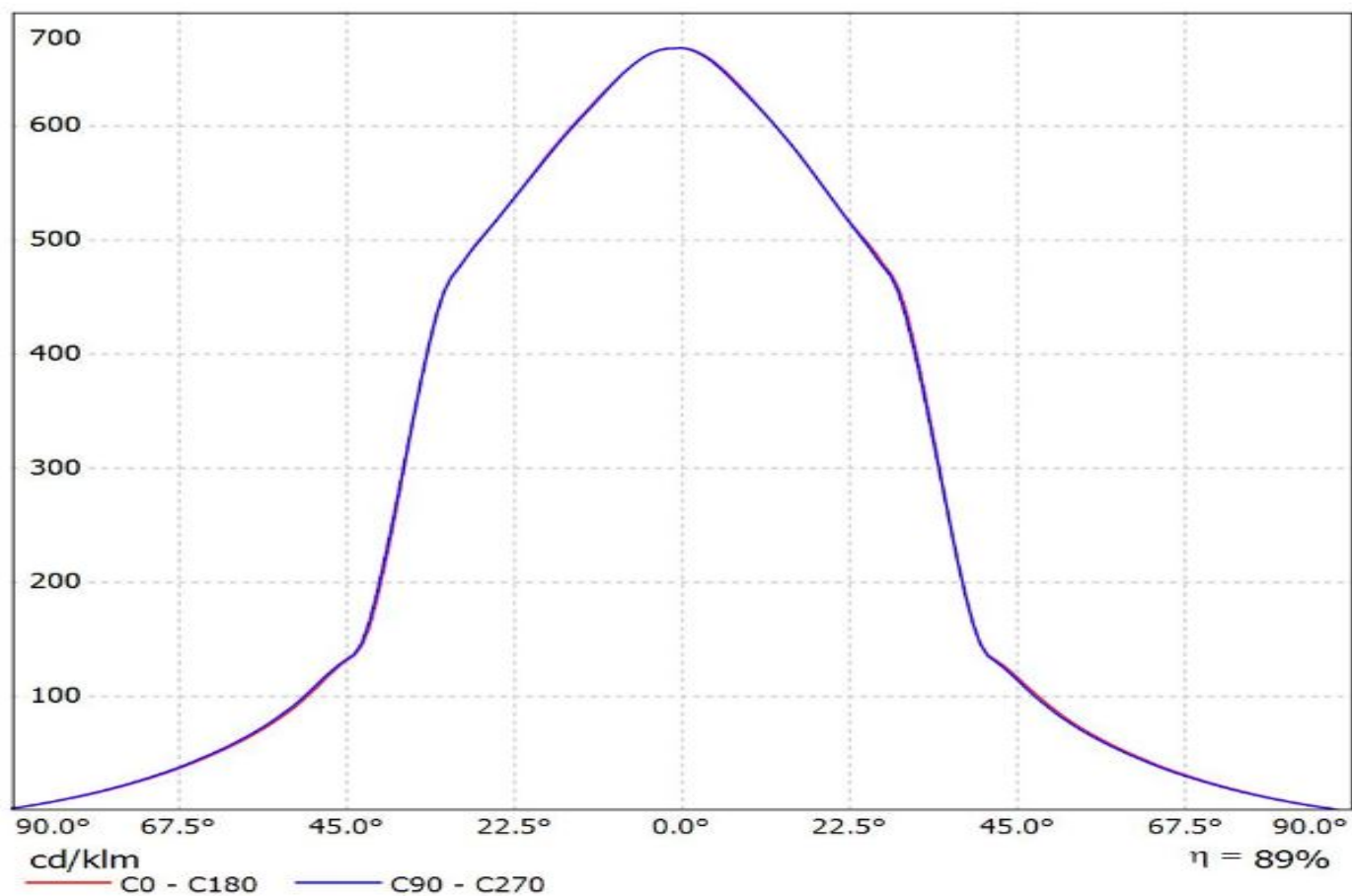


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_542.652lm@100mA_CCT=4000K_P=3.34084W_I=0.100A

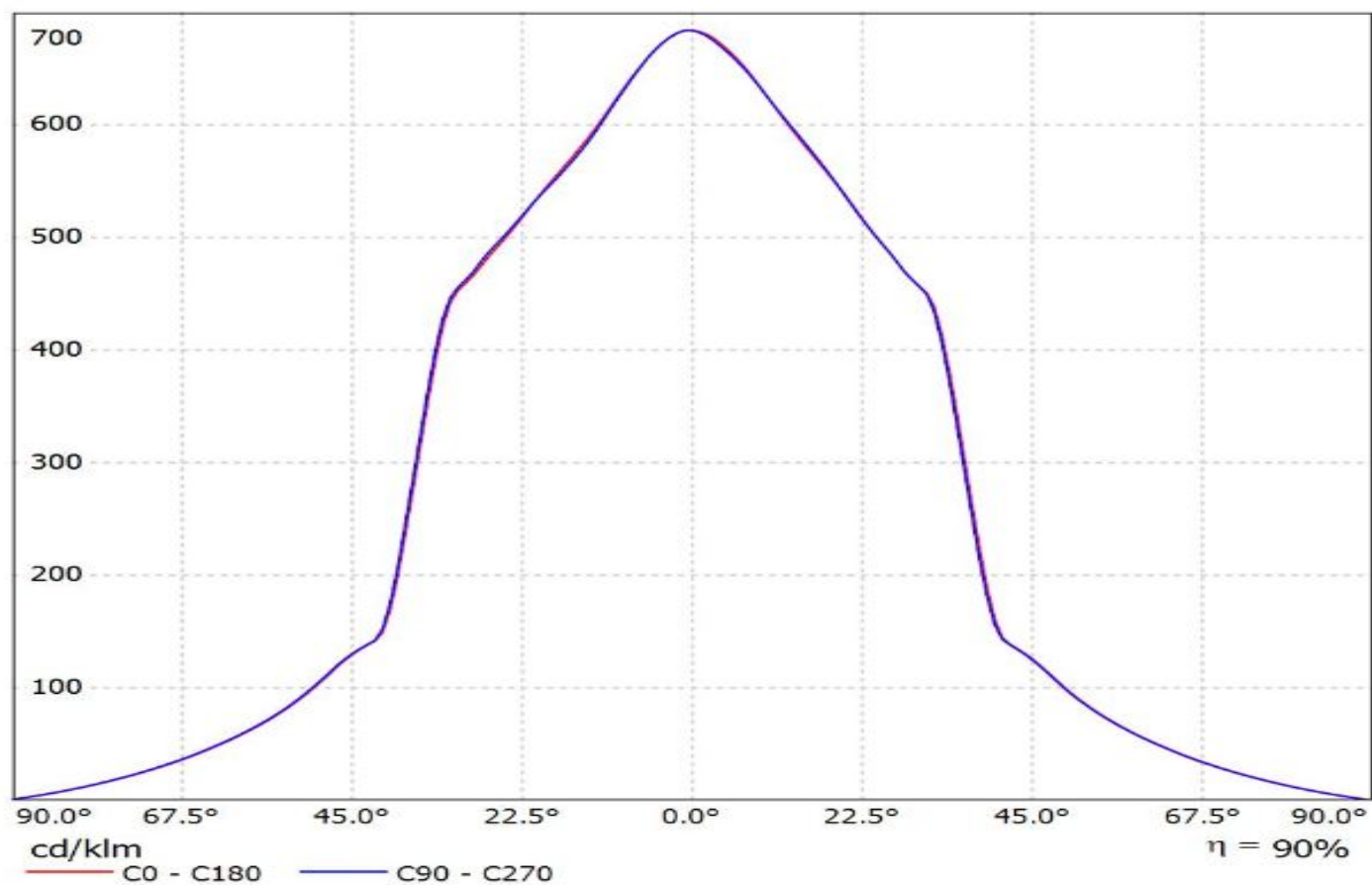


Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13709_PF-SOCKET-VERO13-18_1532.05lm@250mA_P=8.27W_I=0.25A

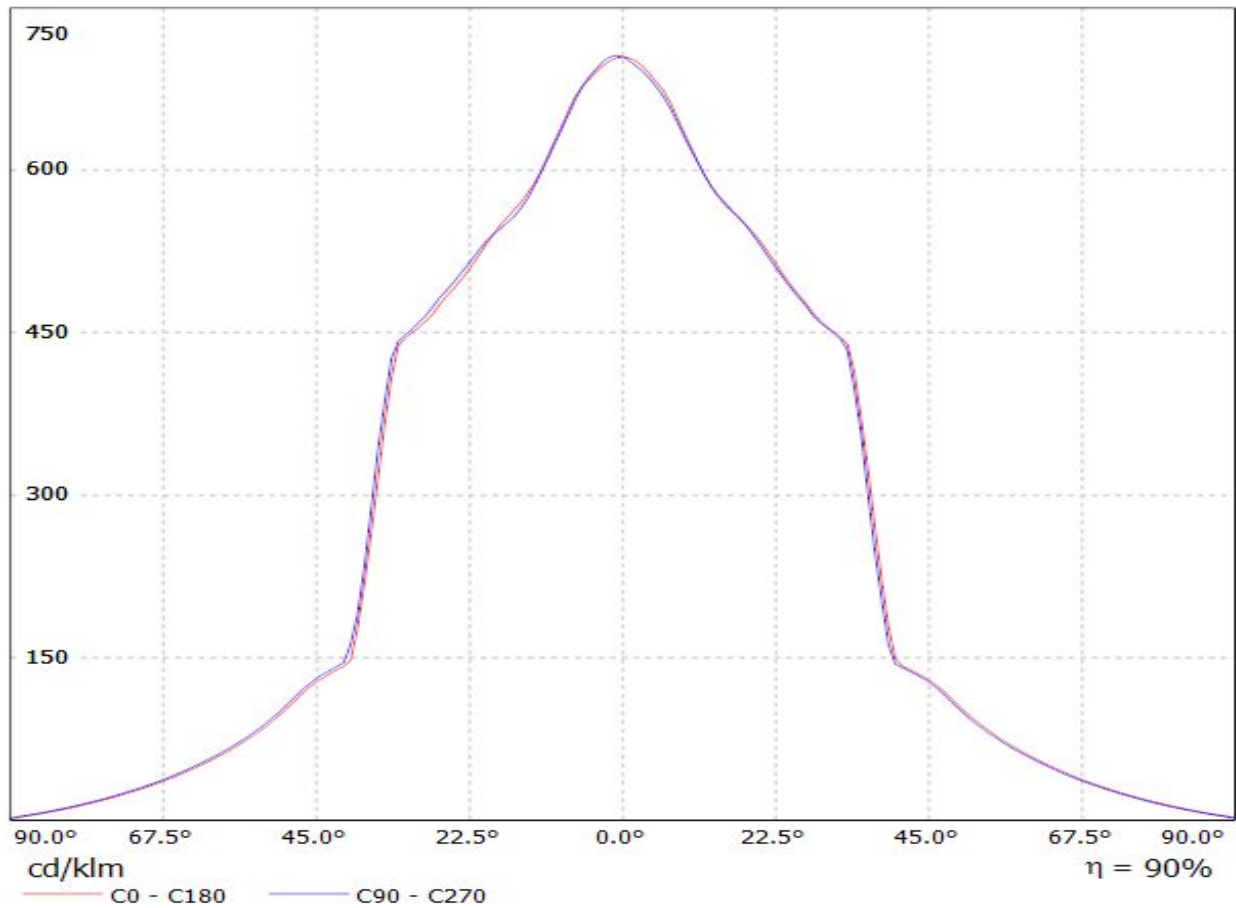


Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(NFCLL060B)

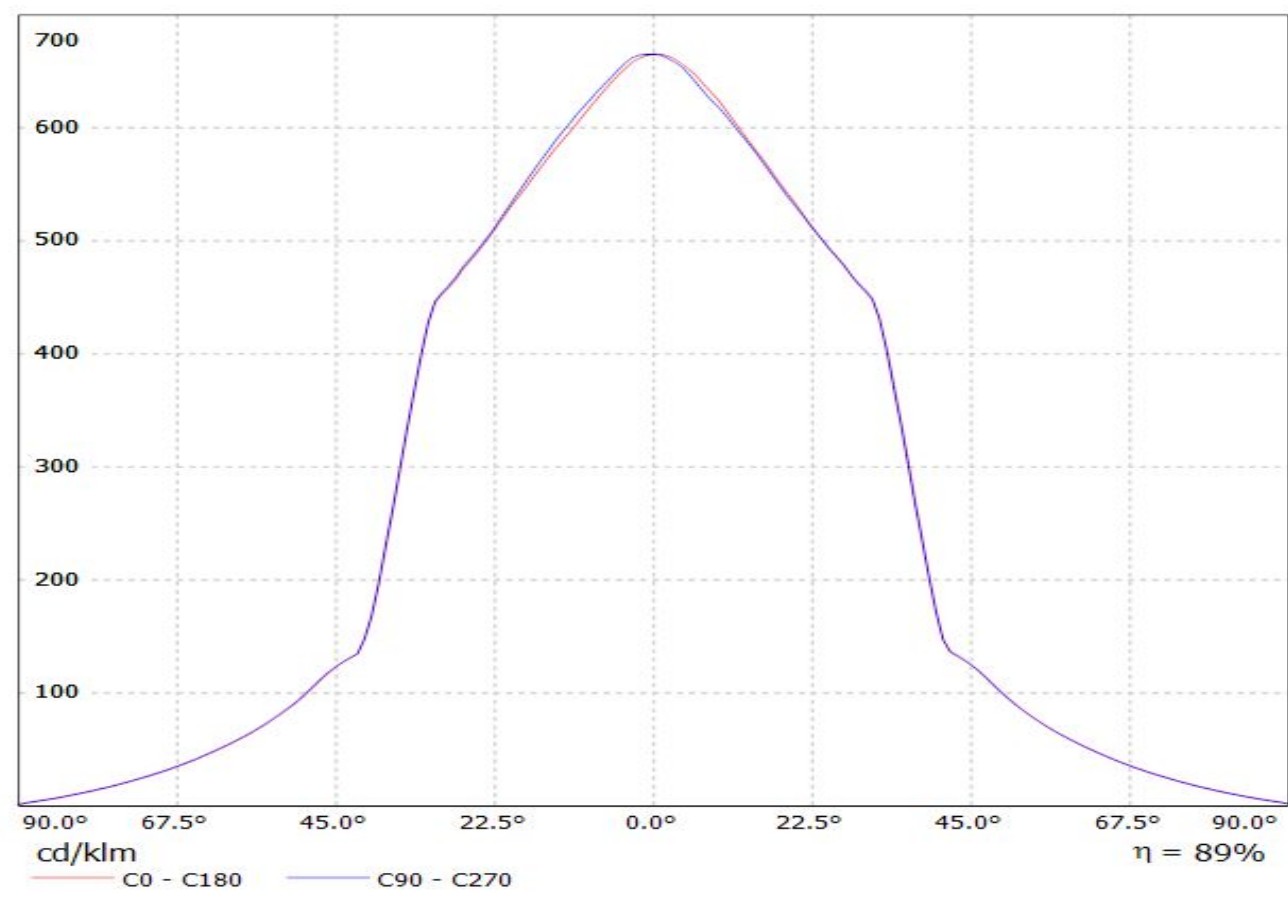
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1365.88lm@250mA_P=8.375W_I=0.25A



Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Soleriq_P9)_Bender+Wirth_connector_461
Lamps: 1 x Osram_Soleriq_P9_(GQ_MAFJB1.EM)_875.631lm@250mA_P=6.94894W_I=0.2498A



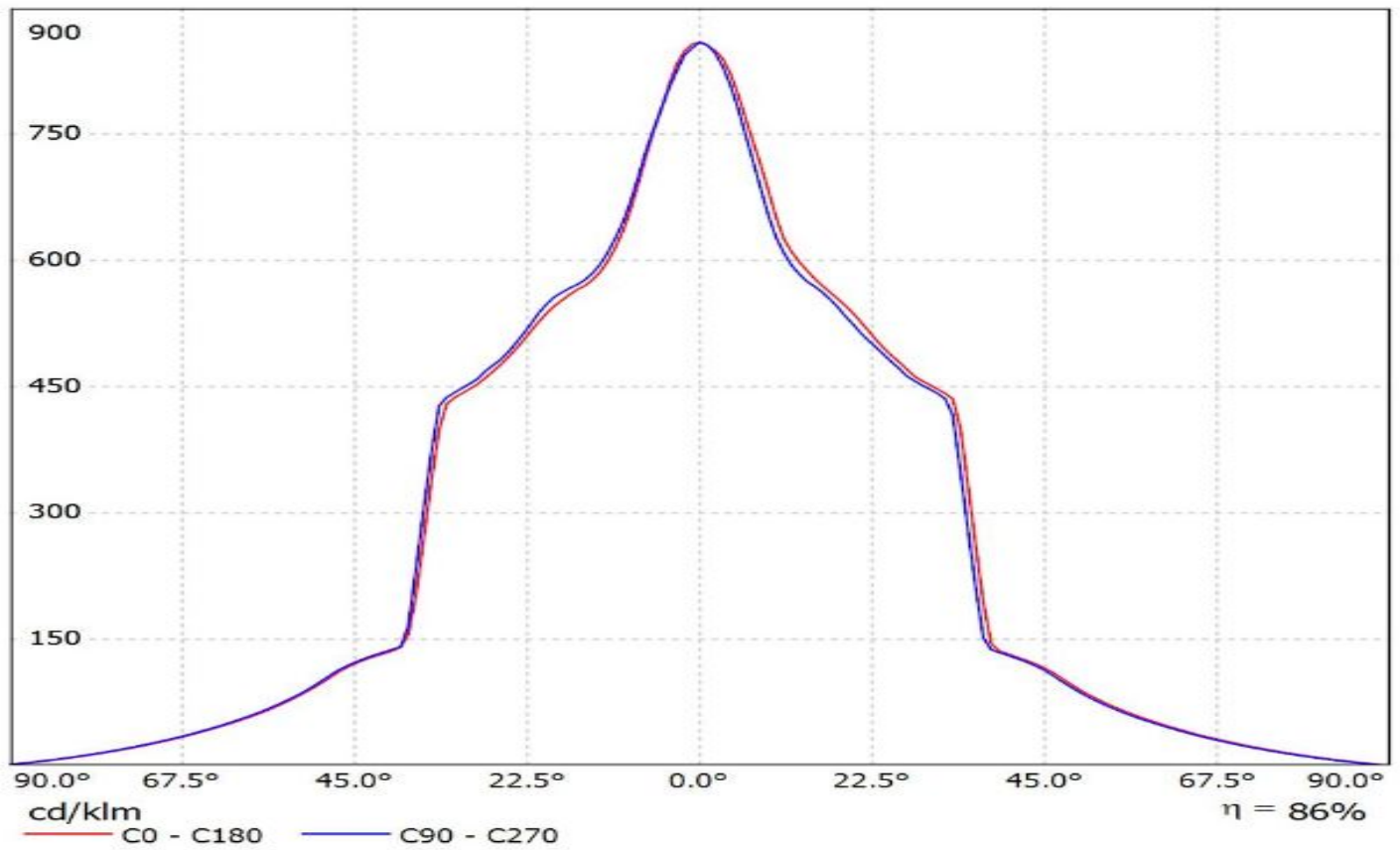
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Soleriq P13)
Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)_921.649lm@250mA_CCT=3500K_P=8.8097W_I=0.25A



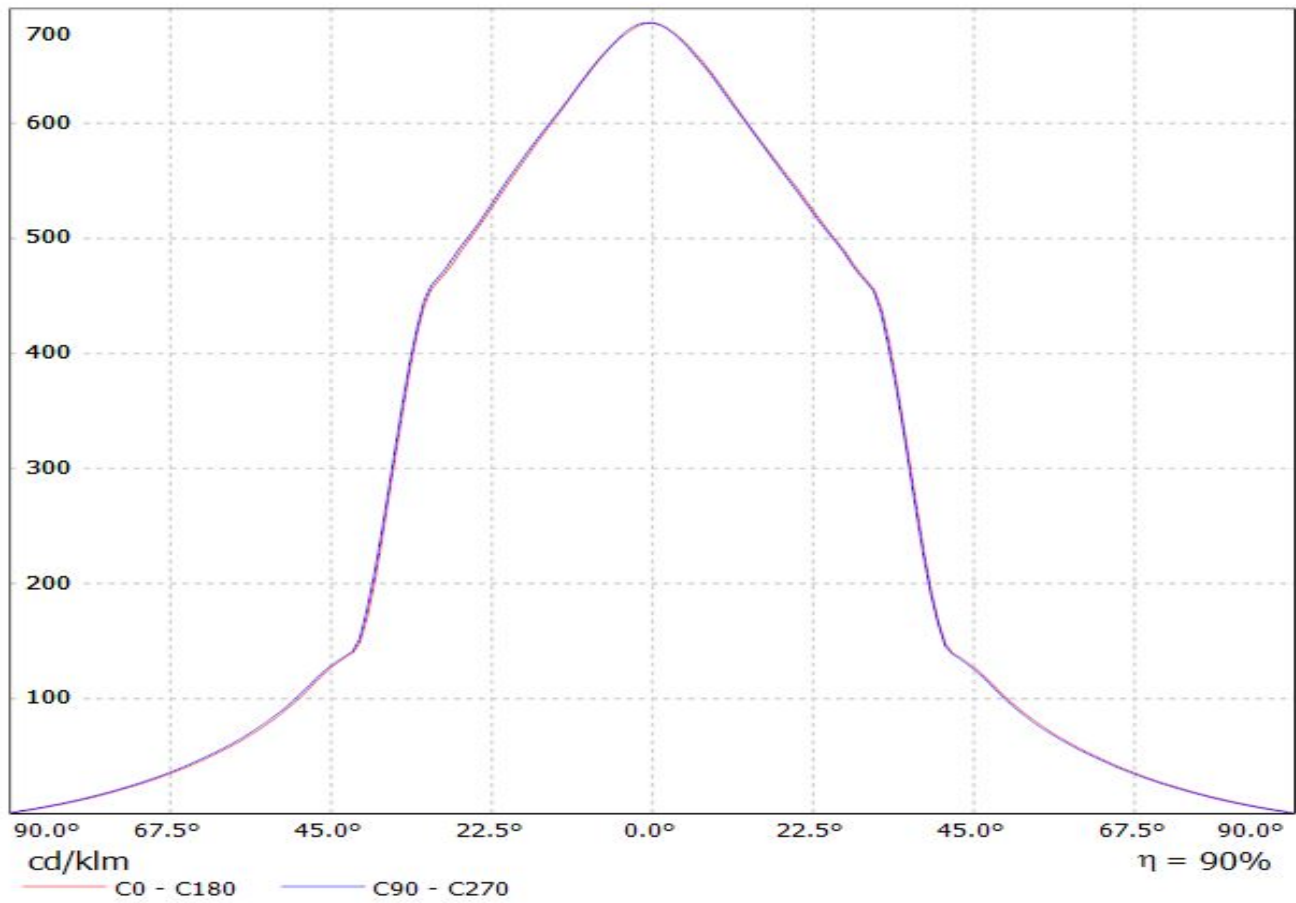
Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(P6) / LDC (Linear)

Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(P6)

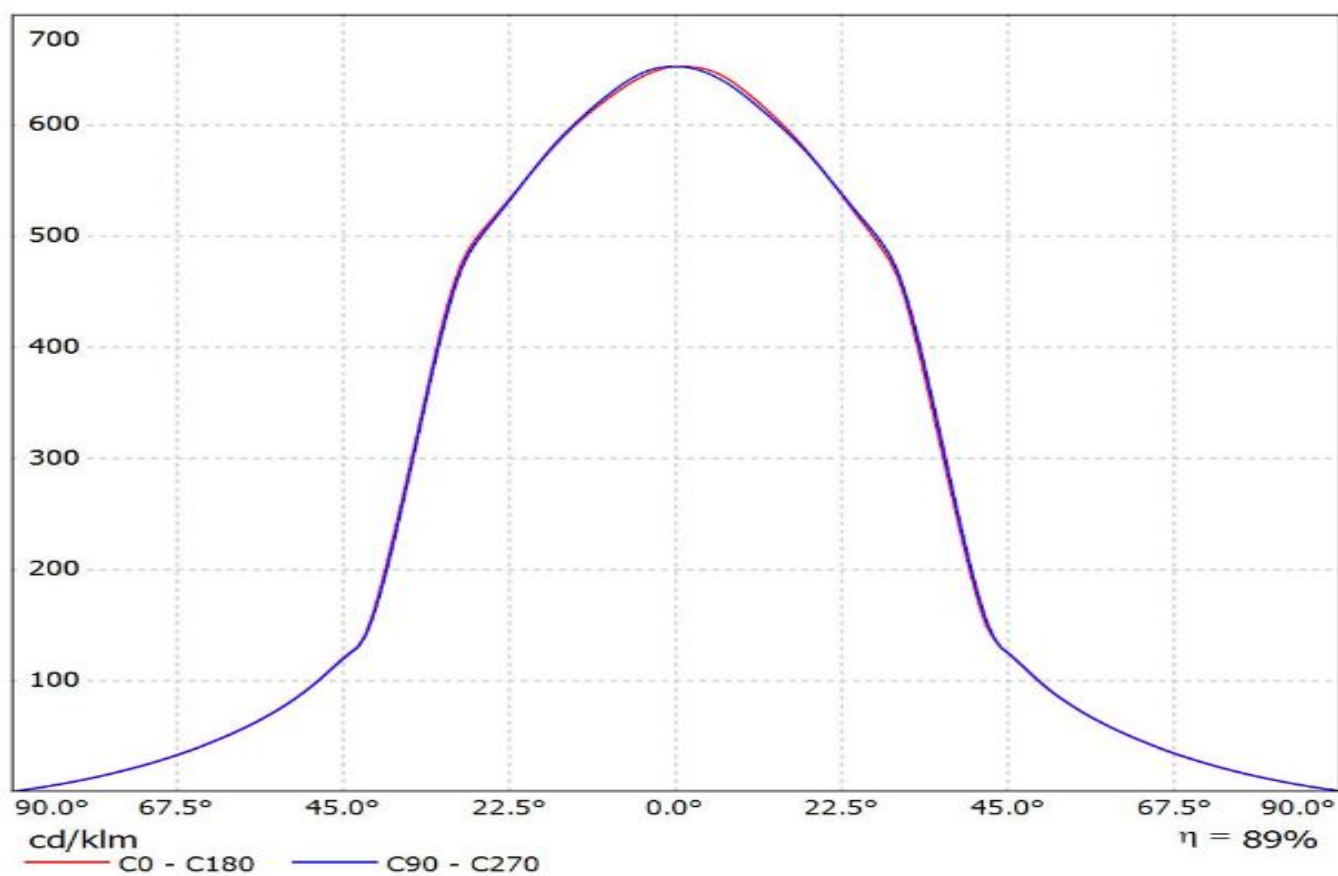
Lamps: 1 x Osram_Soleric_P6_(GW_MAEGB1.EM)_504.127lm@250mA_P=6.28598W_I=0.25A



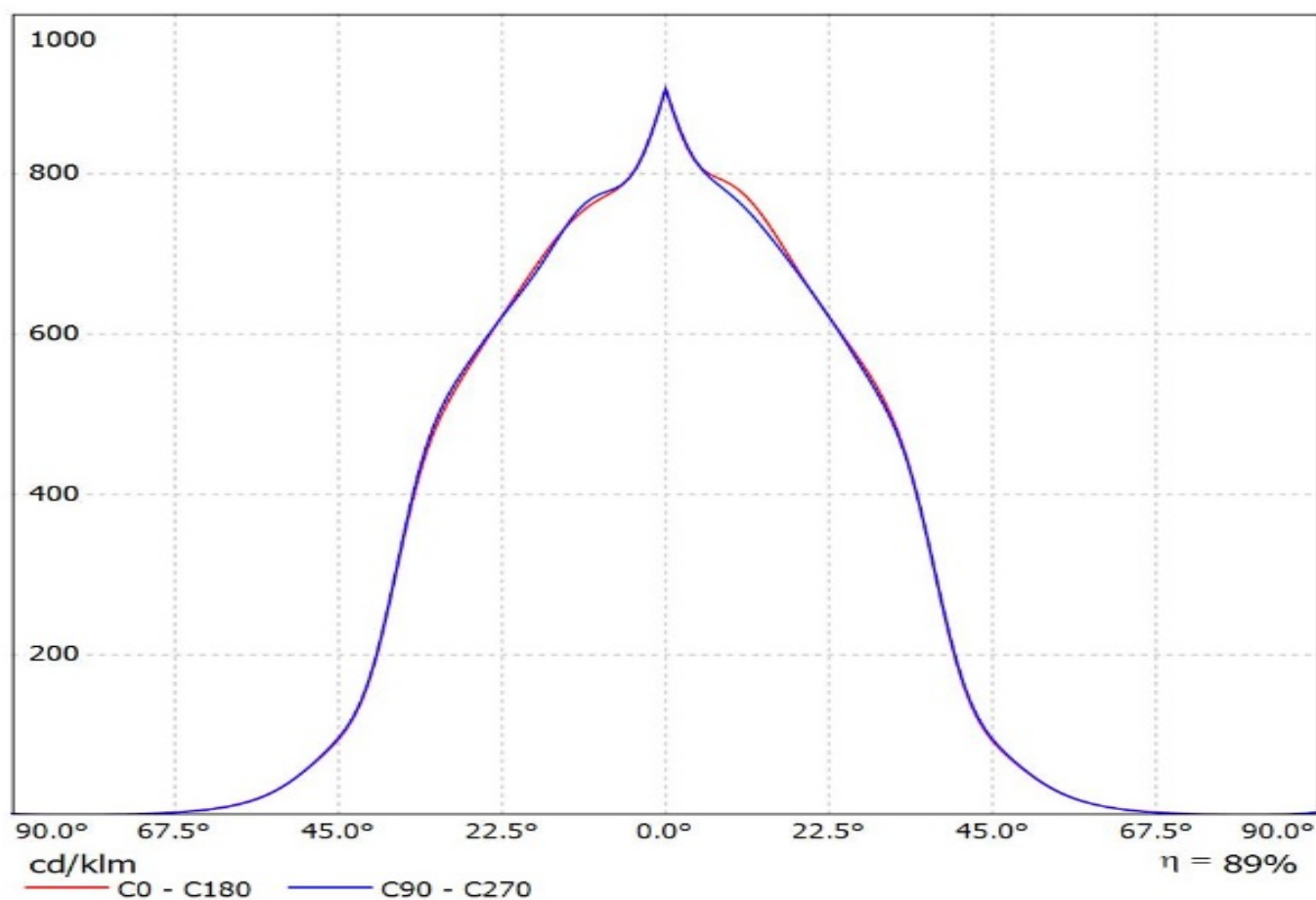
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(Soleriq_S13)
Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_931.029lm@250mA_P=7.44679W_I=250mA



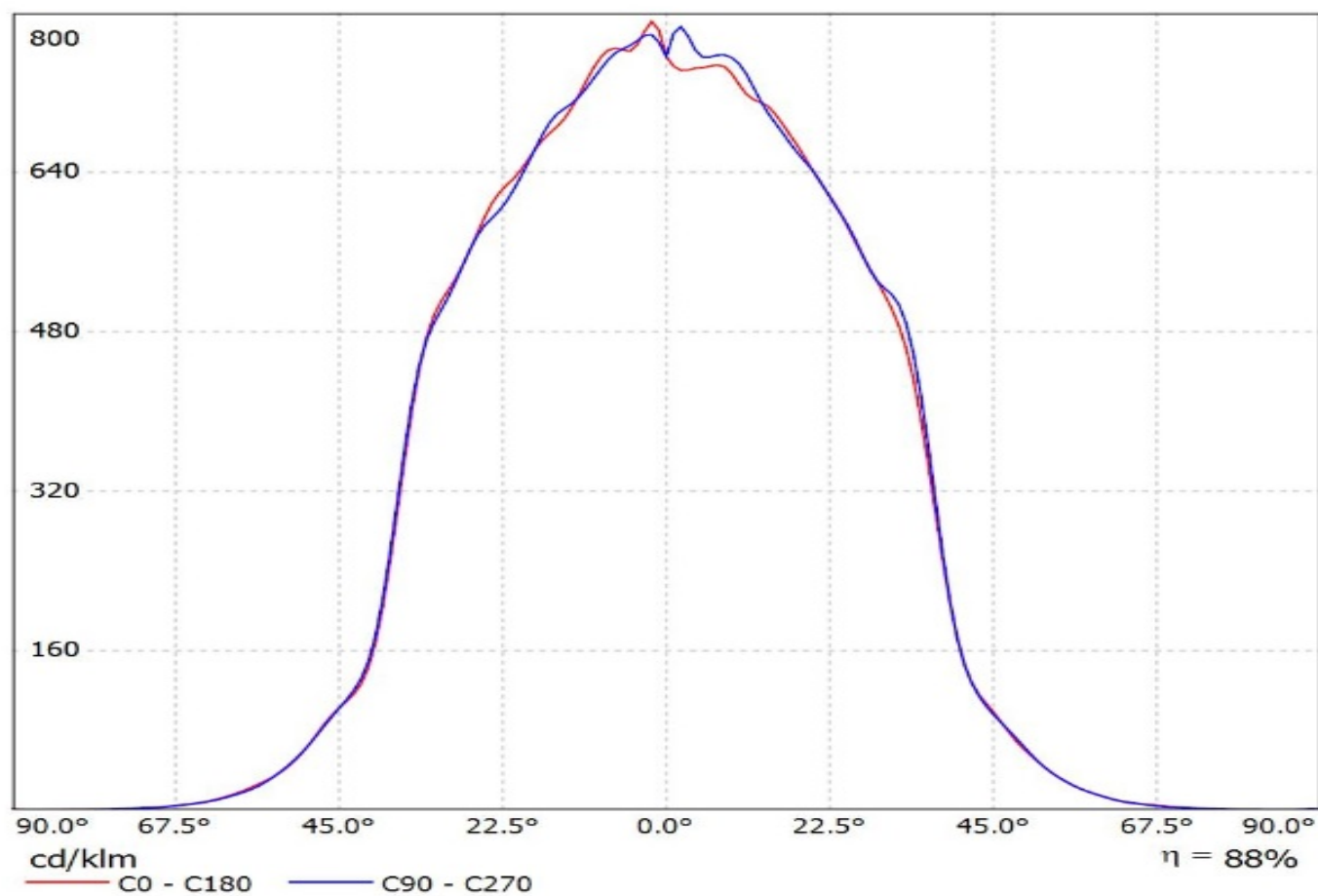
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(LC040B)_(450_Typ_L2)_(C13709)
Lamps: 1 x Samsung_LC040B_(SPHWW1HDNE25010101)_CCT=3000k_(450_Typ_L2)_(C13709_PF-SOCKET-VERO13-18)_1115.79lm@250mA_P=8.075W_I=0.25A



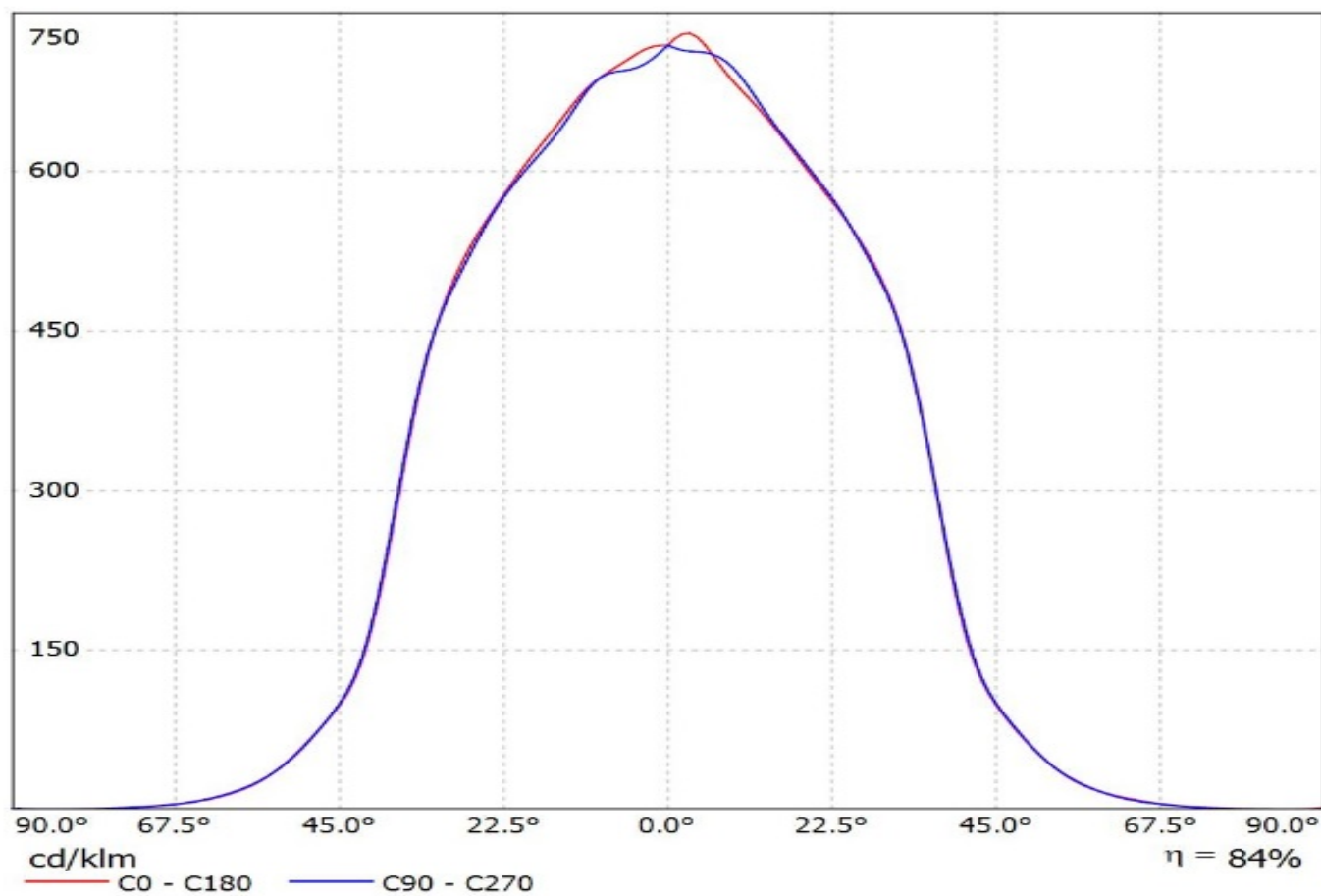
Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC010C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1



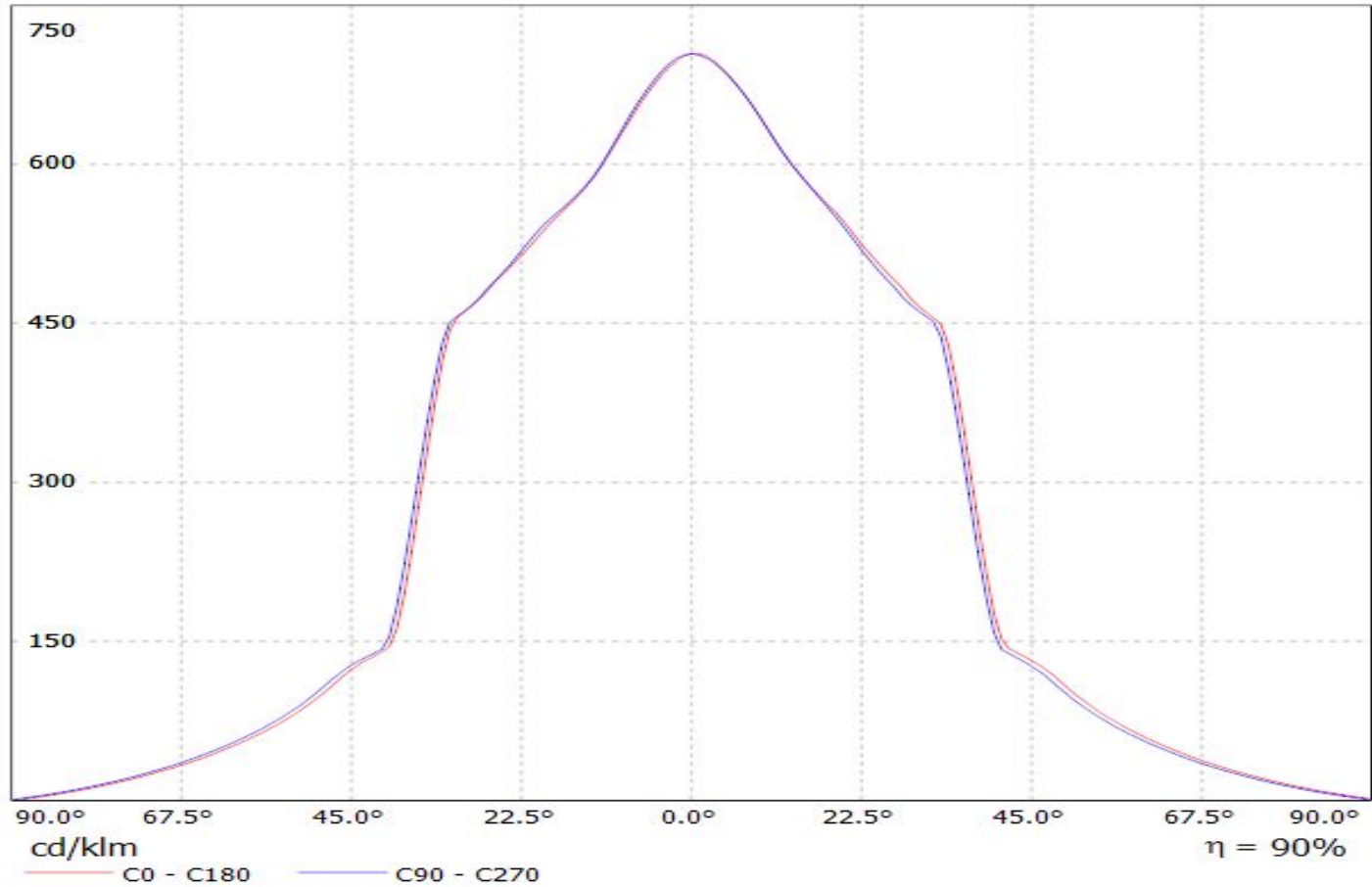
Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC020C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



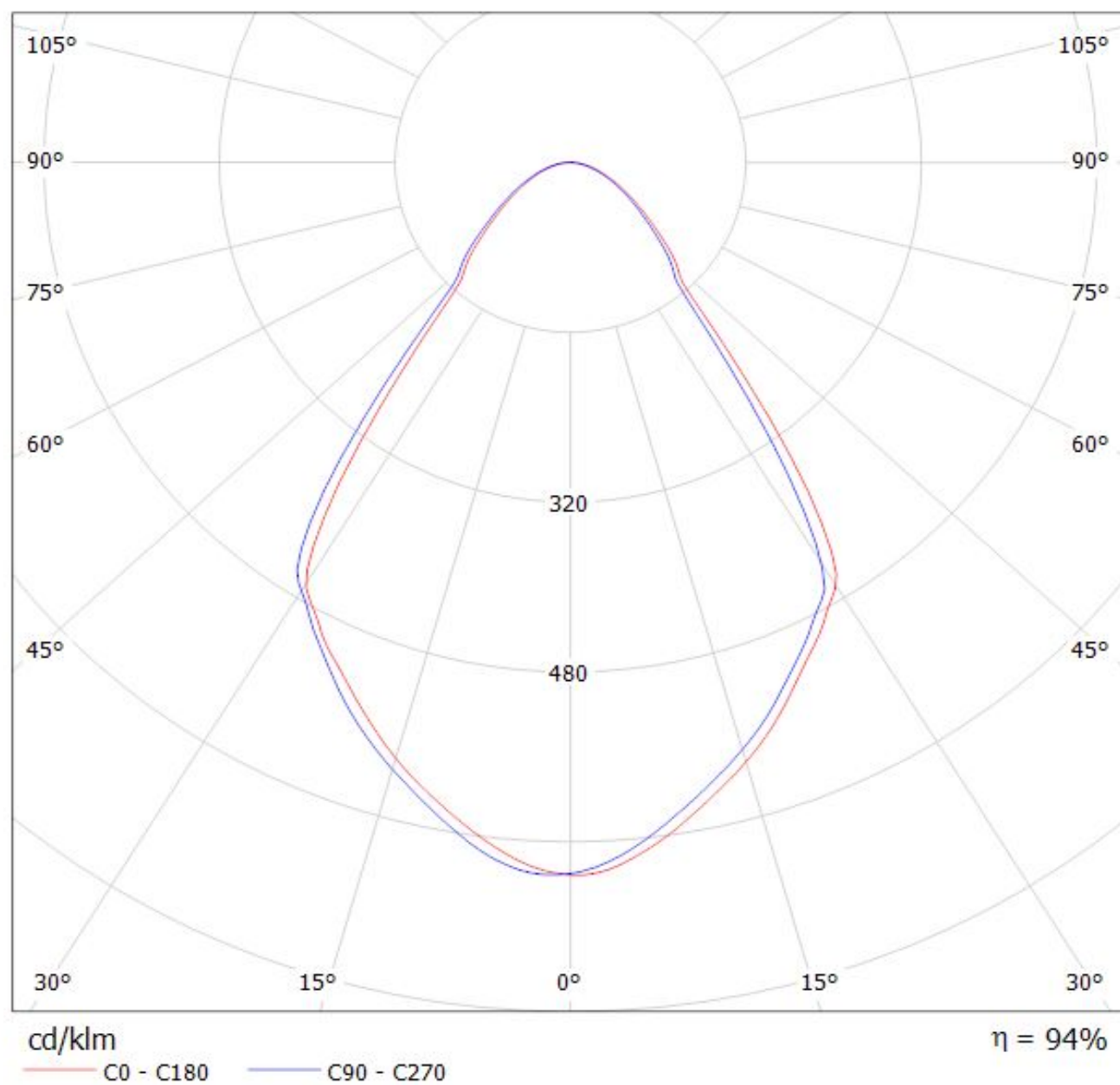
Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC040C)_(B+W_480_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 TYpe L1



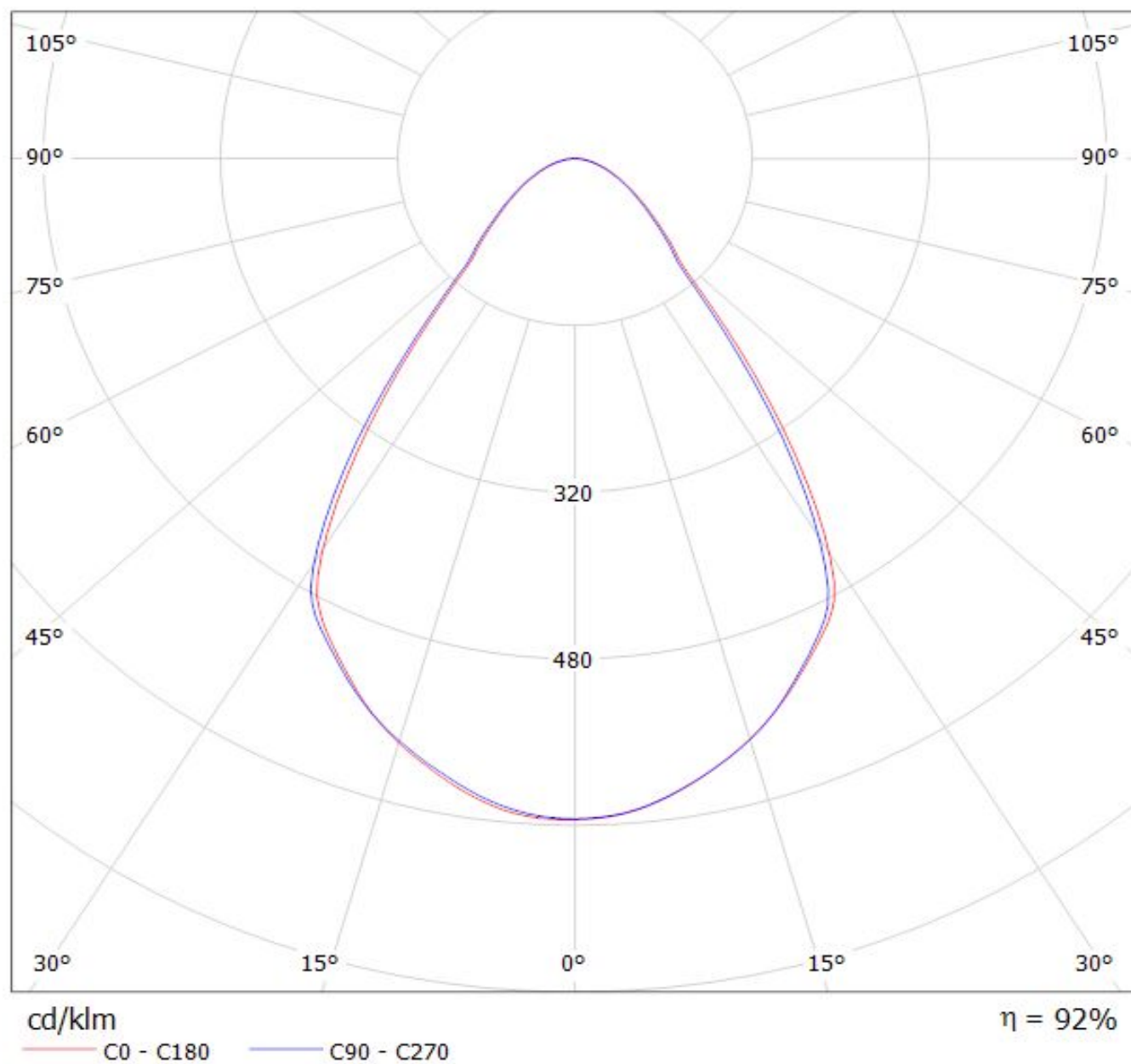
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1142.55lm@250mA_P=8.4070W_I=0.250A



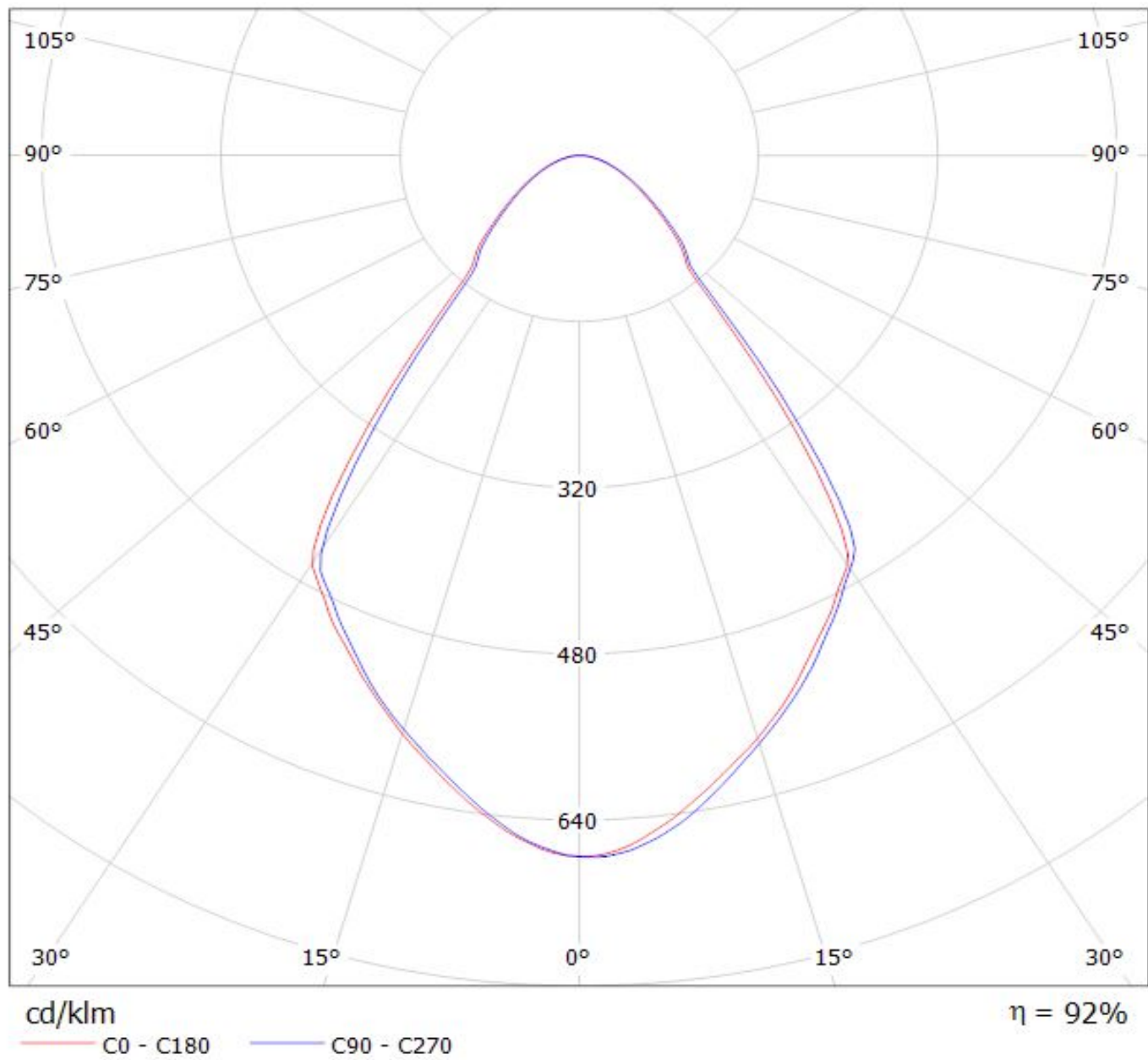
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO1318
Lamps: 1 x VERO13_1019.56@250mA_P=7.54246W_I=249.8mA



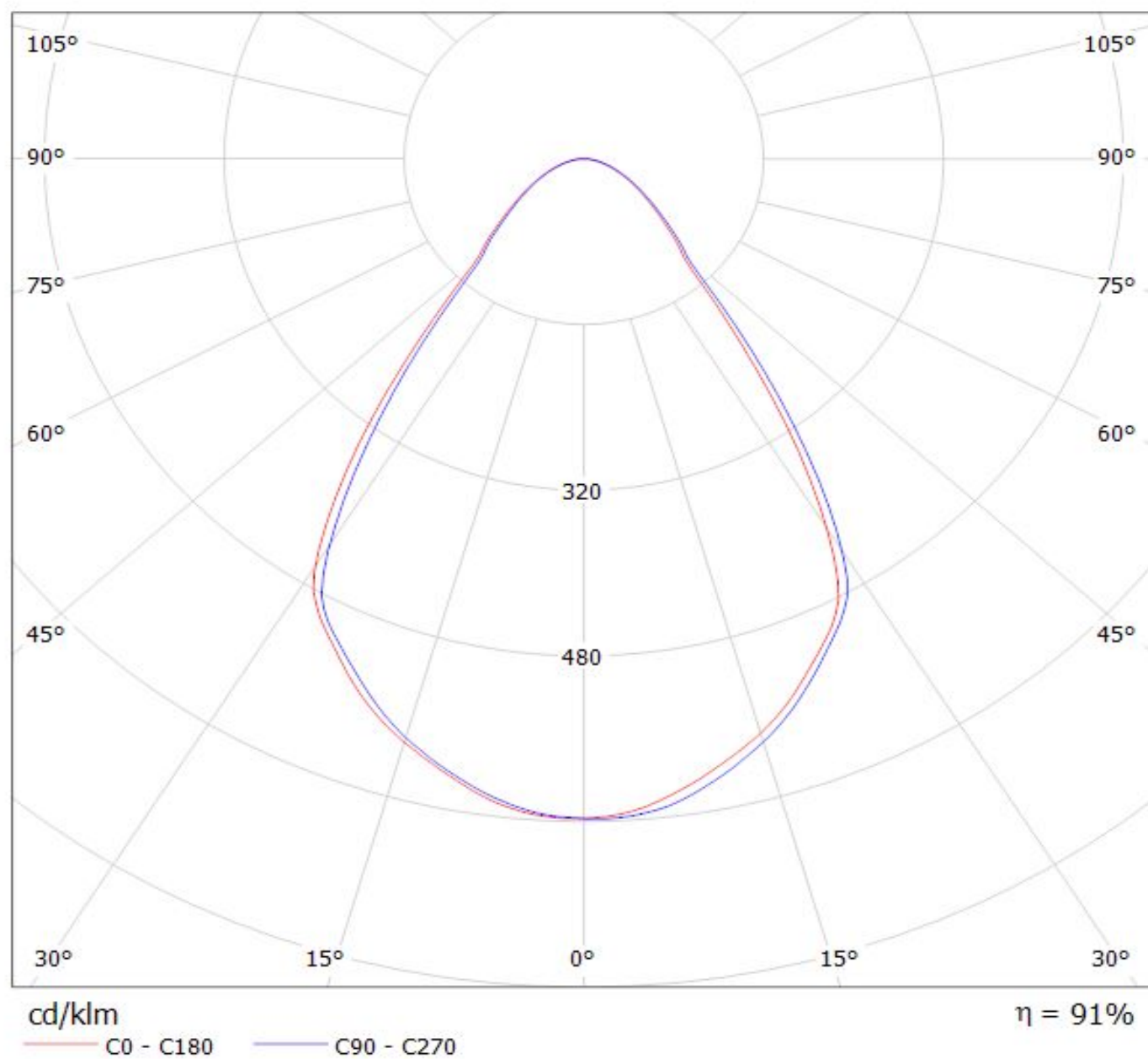
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO1318
Lamps: 1 x VERO18_878.76lm@250mA_P=6.73231W_I=249.9mA



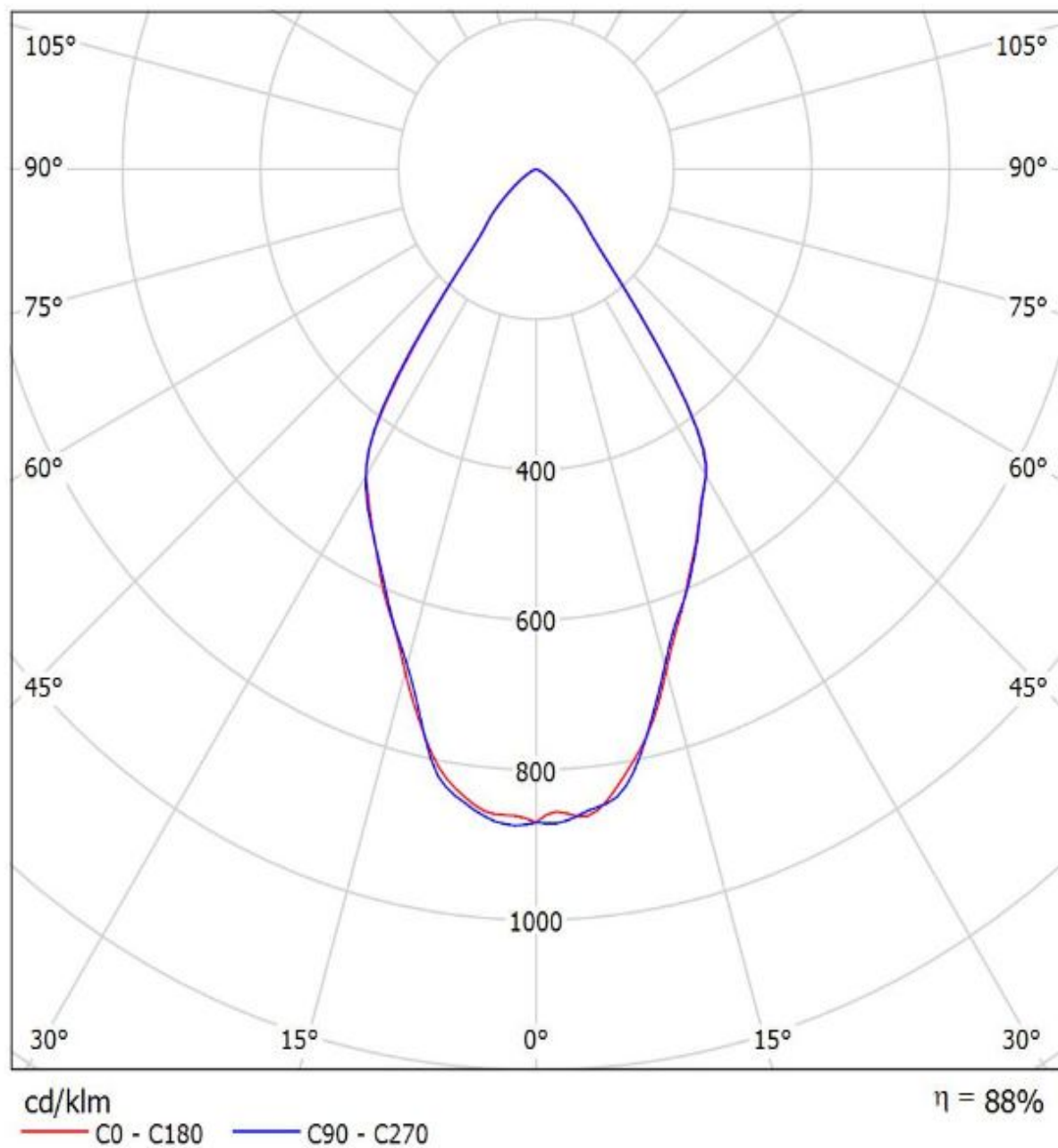
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(XENIO_13MM)
Lamps: 1 x XENIO_13MM_2074.66lm@?mA_P=23W_I=?A



Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Xenio_18mm)
Lamps: 1 x Xenio_18mm_3756.62lm@?mA_P=43W_I=?A

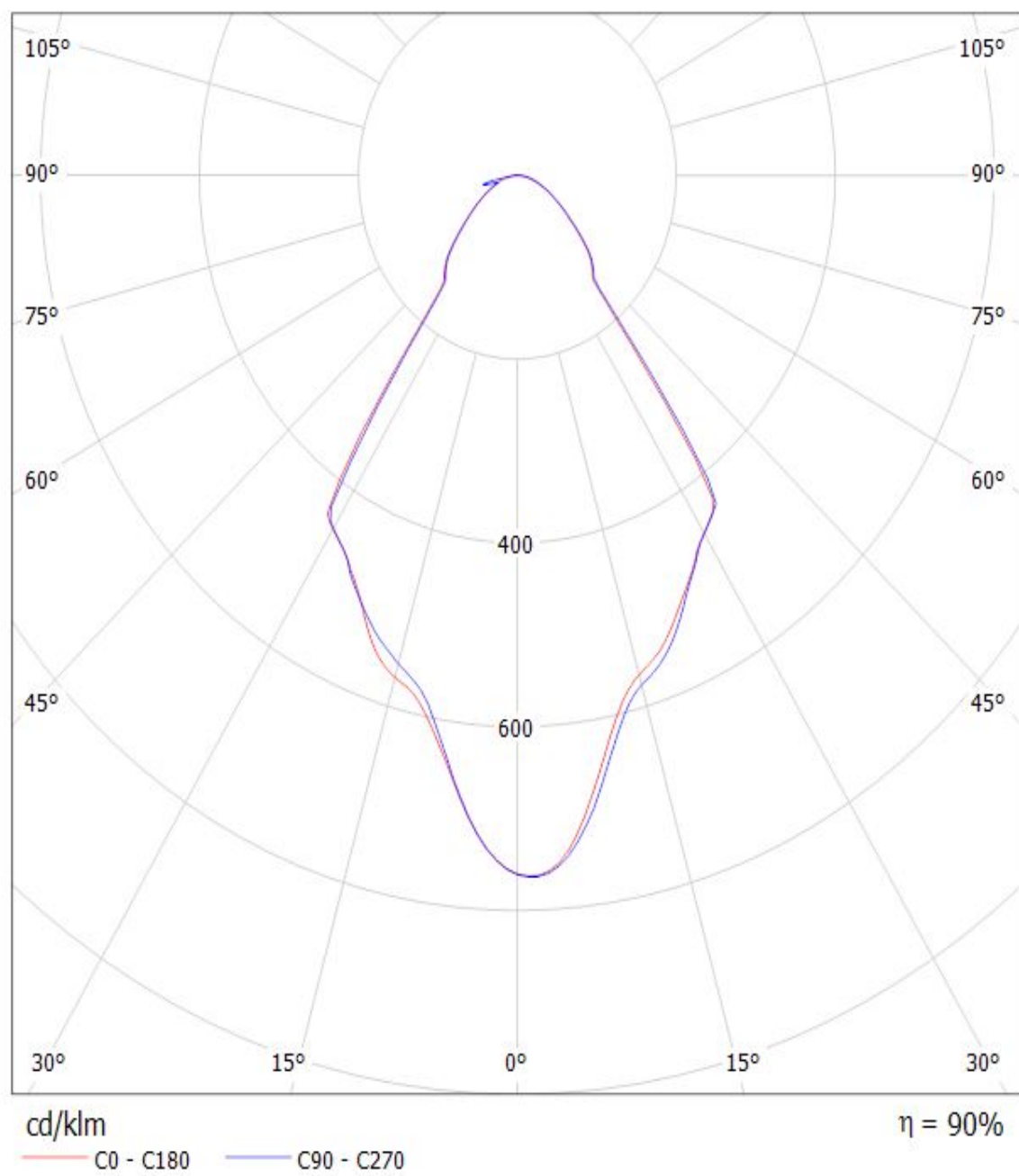


Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7

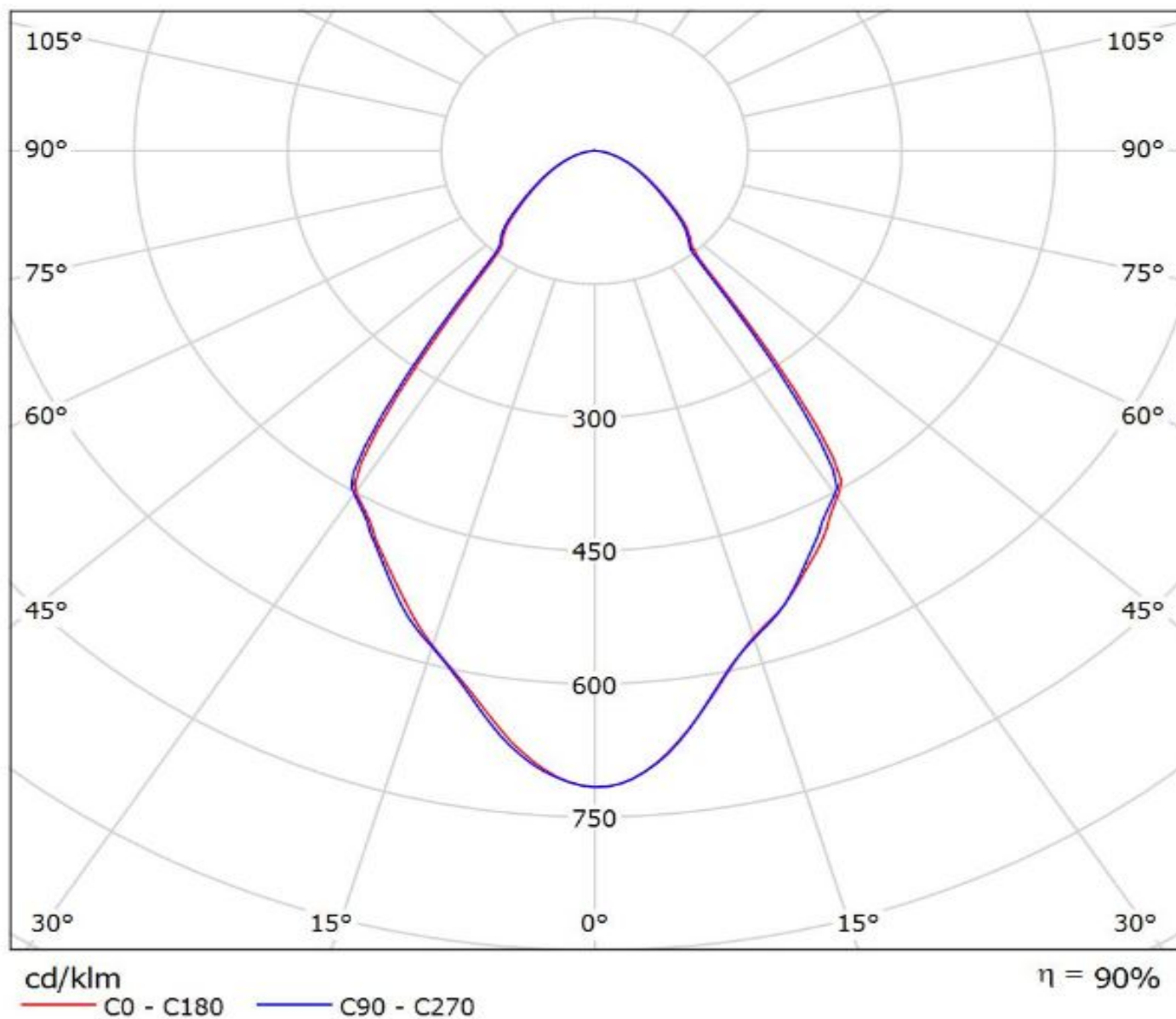


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(CLU700)

Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_(C13709)_(434_Typ_L1)_374.62lm@100mA_P=2.81352W_I=0.1002A



Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(CLU024) Citizen_CLU024_(434_Typ_L1)_
(C13709_PF-SOCKET-VERO13-18)_1065.5lm@250mA_P=8.55W_I=0.25A
Lamps: 1 x Citizen_CLU024_(434_Typ_L1)_ (C13709_PF-SOCKET-VERO13-18)
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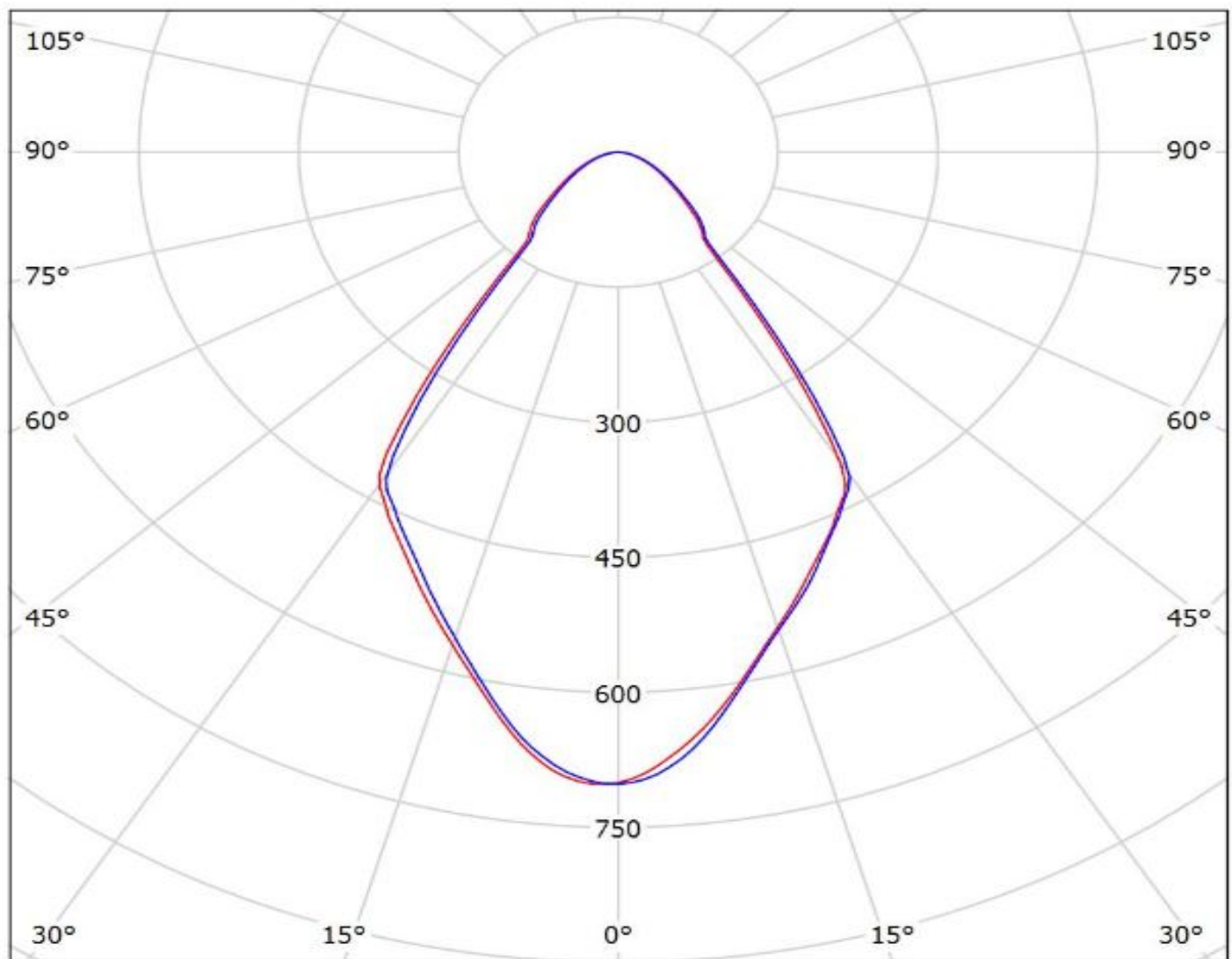


Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1850) / LDC (Polar)

Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1850)

Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)

_847.836lm@250mA_CCT=3000K_P=8.27W_I=0.25A

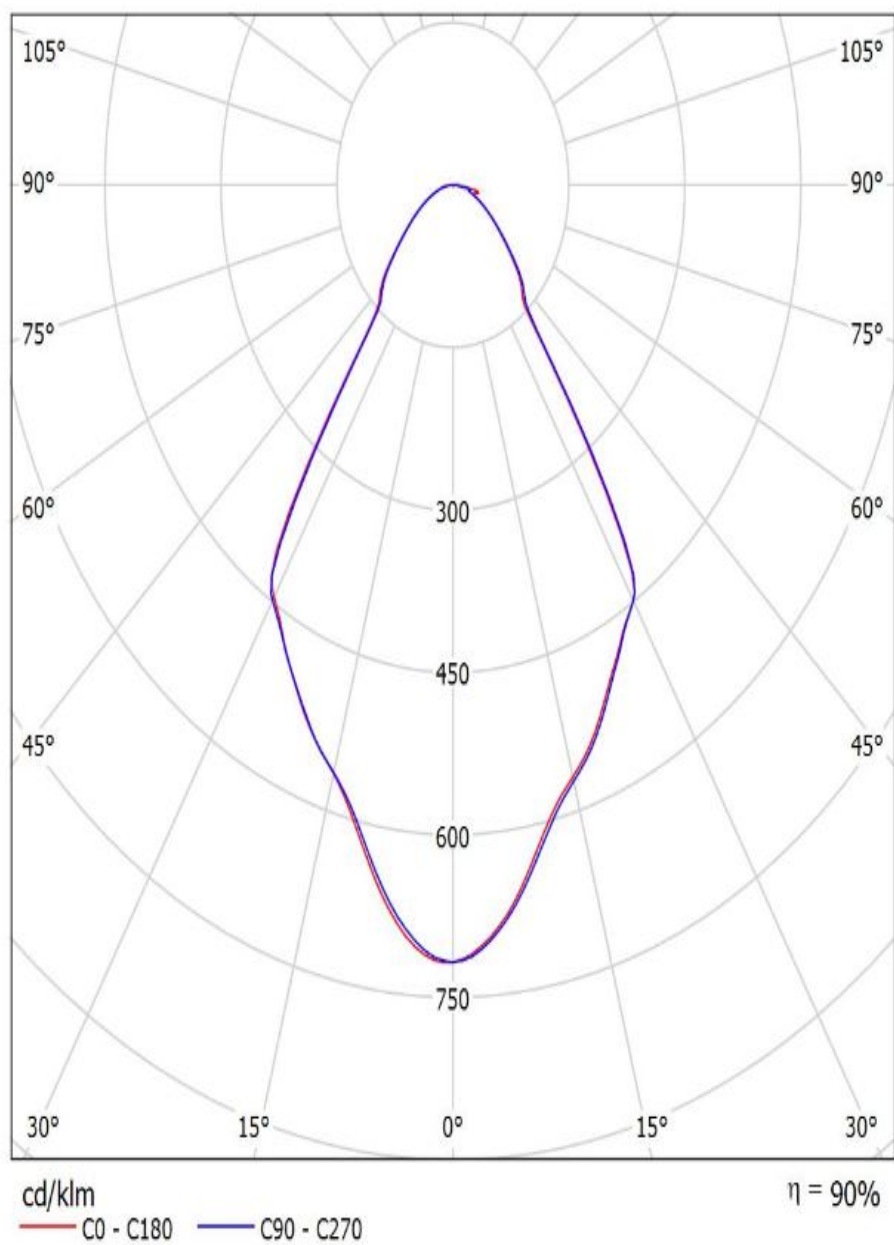


cd/klm

$\eta = 82\%$

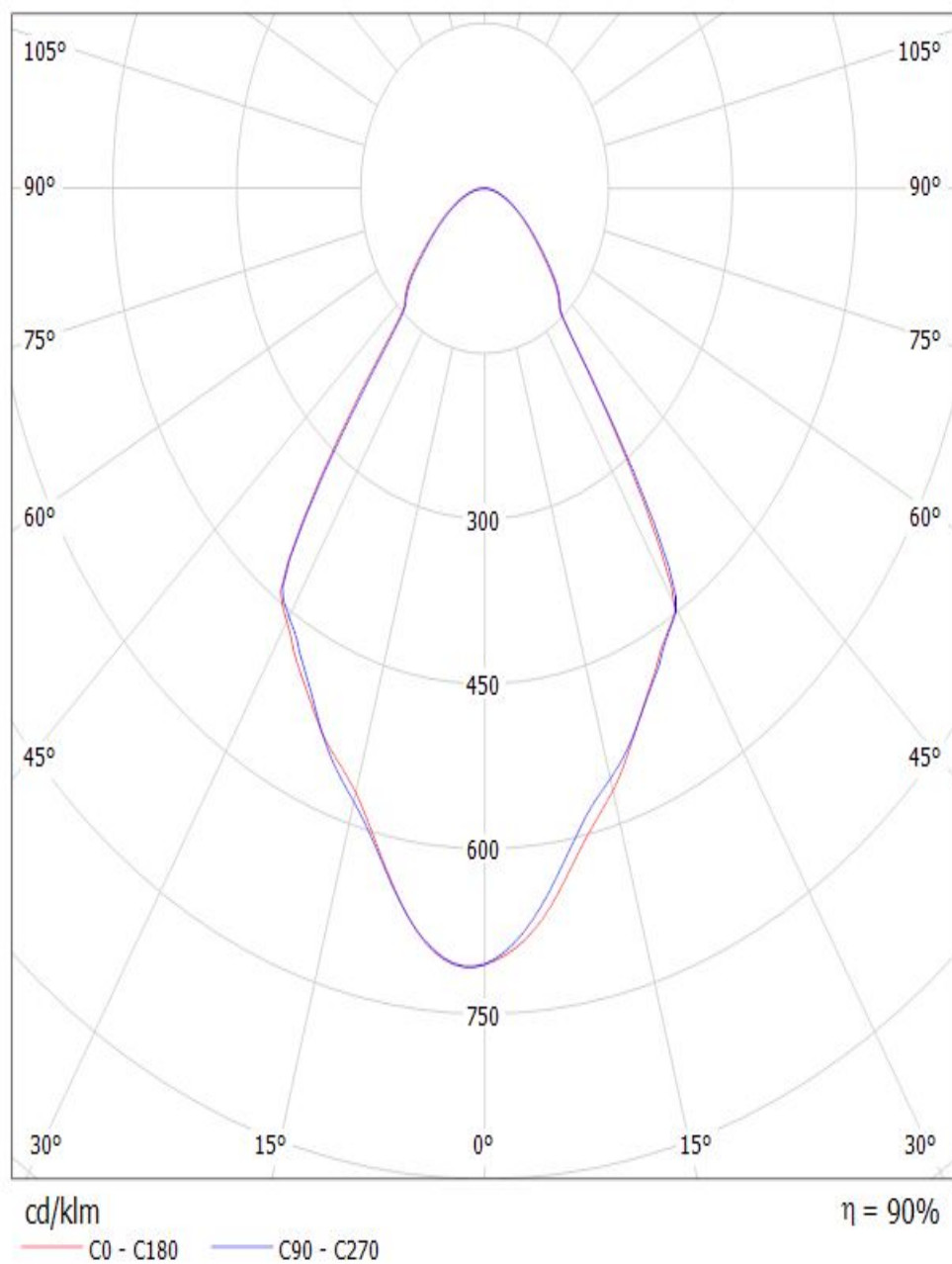
— C0 - C180 — C90 - C270

Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(CXA1520)_CXA1520_(CXA1520-30F-N4-N0H-00001)_(441_Typ_L1)_(C13709_PF-SOCKET-VERO13-18)_1036.14lm@250mA_P=8.825W_I=0.25A
Lamps: 1 x CXA1520_(CXA1520-30F-N4-N0H-00001)_(441_Typ_L1)_(C13709_PF-SOCKET-VERO13-18)_1036.14lm@250mA_P=8.825W_I=0.25A

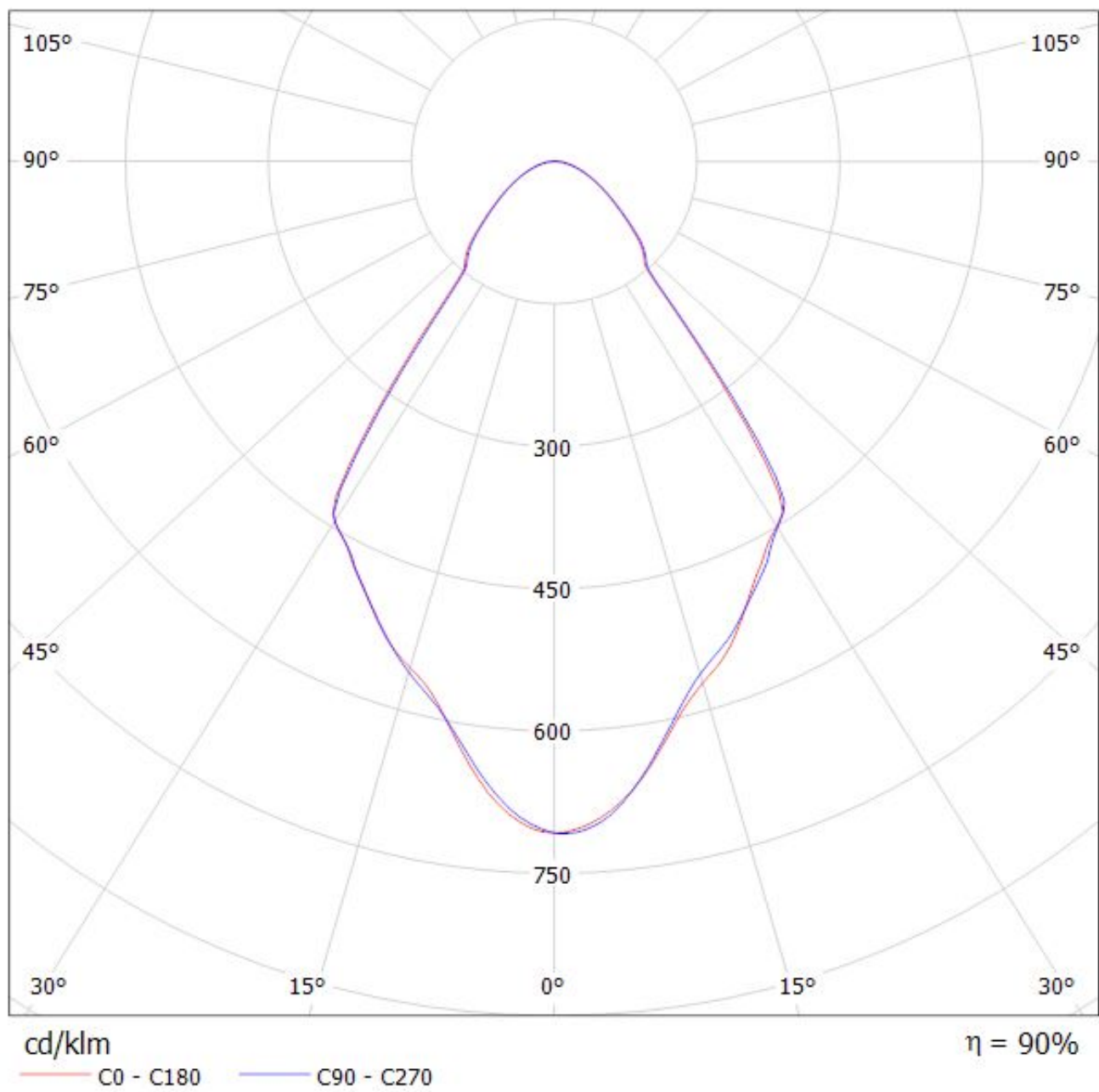


Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(Luxeon CoB 1203)

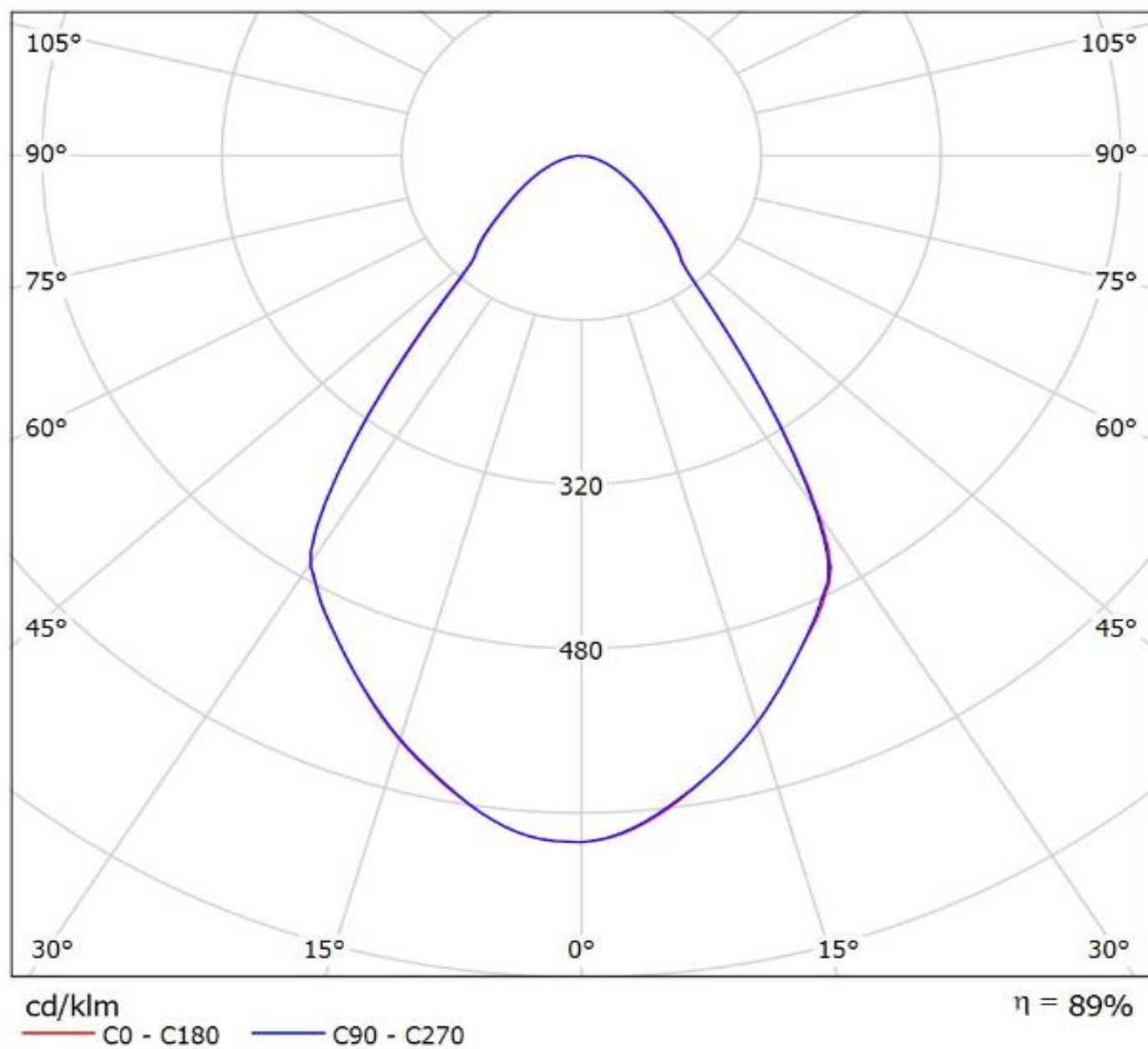
Lamps: 1 x Luxeon_COB_1203_(LHC1-3080-1203)_(C13868_LENA-STD-BASE-VERO13-18)_(438_Typ_L1)_990.381lm@250mA_P=8.6818W_I=0.2498A



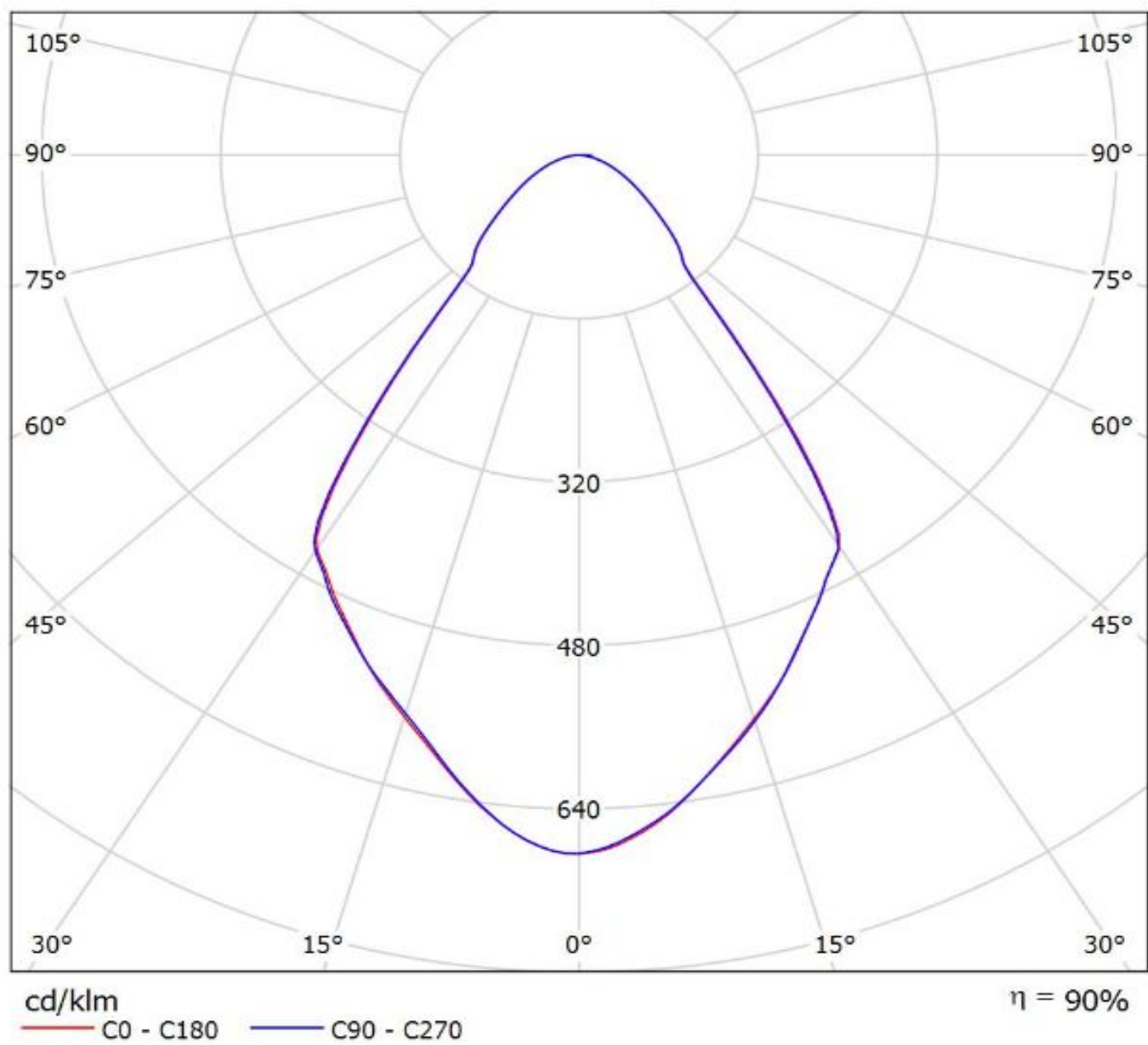
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13-18_(NFCLL036B)
Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_542.652lm@100mA_CCT=4000K_P=3.34084W_I=0.100A



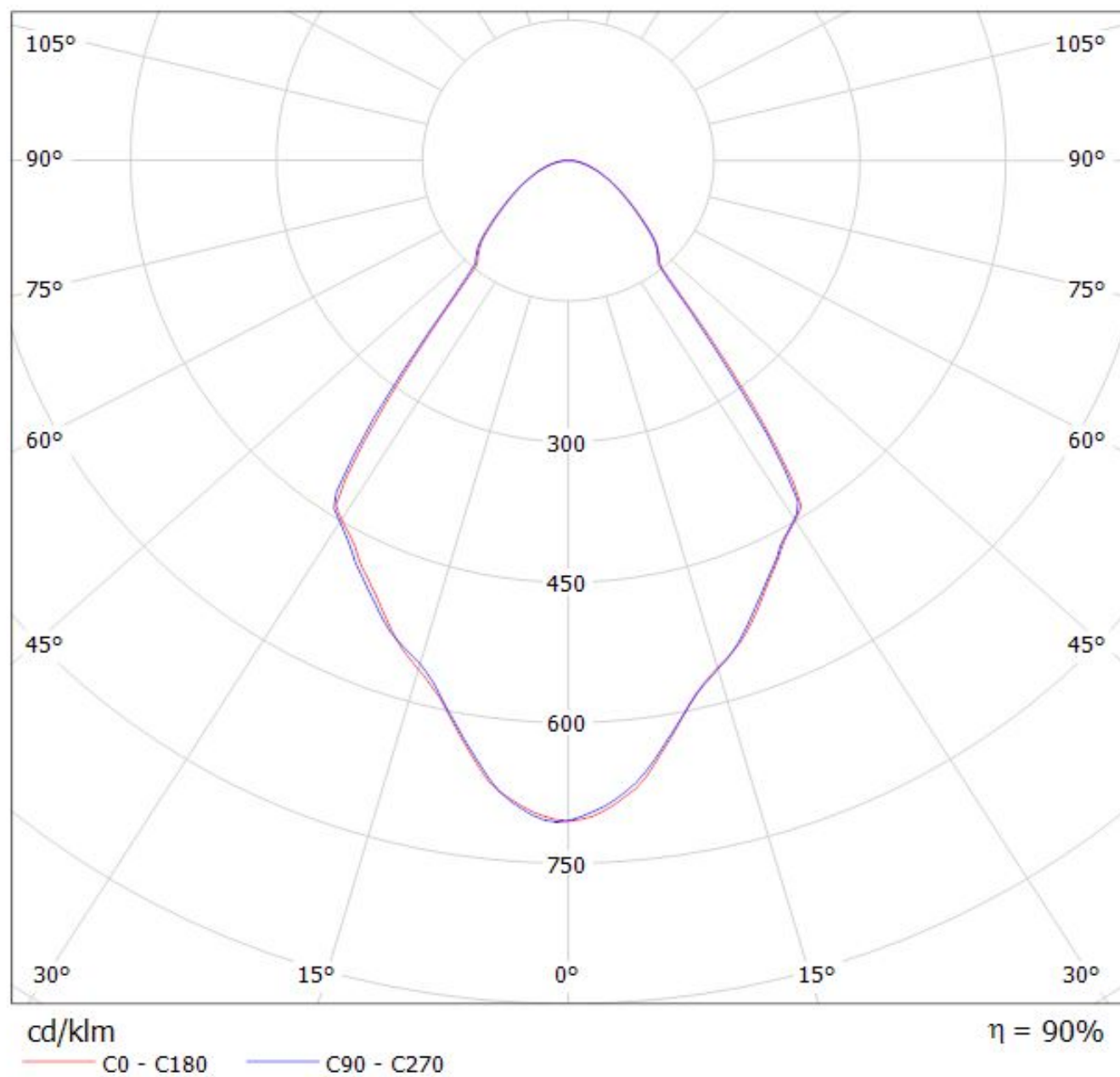
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13709_PF-SOCKET-VERO13-18_1532.05lm@250mA_P=8.27W_I=0.25A



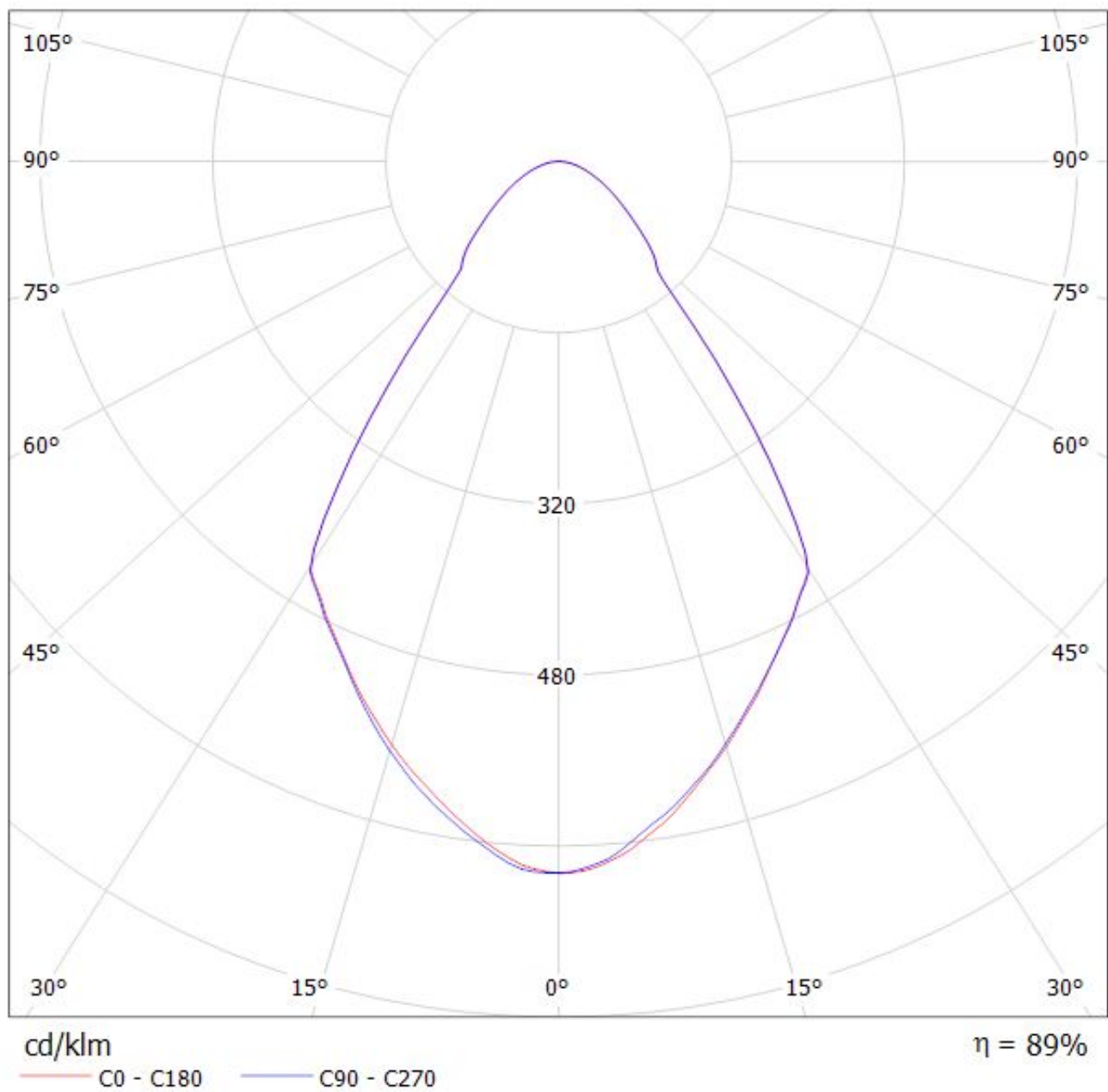
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1365.88lm@250mA_P=8.375W_I=0.25A



Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Soleriq_P9)_Bender+Wirth_connector_461
Lamps: 1 x Osram_Soleriq_P9_(GQ_MAFJB1.EM)_875.631lm@250mA_P=6.94894W_I=0.2498A



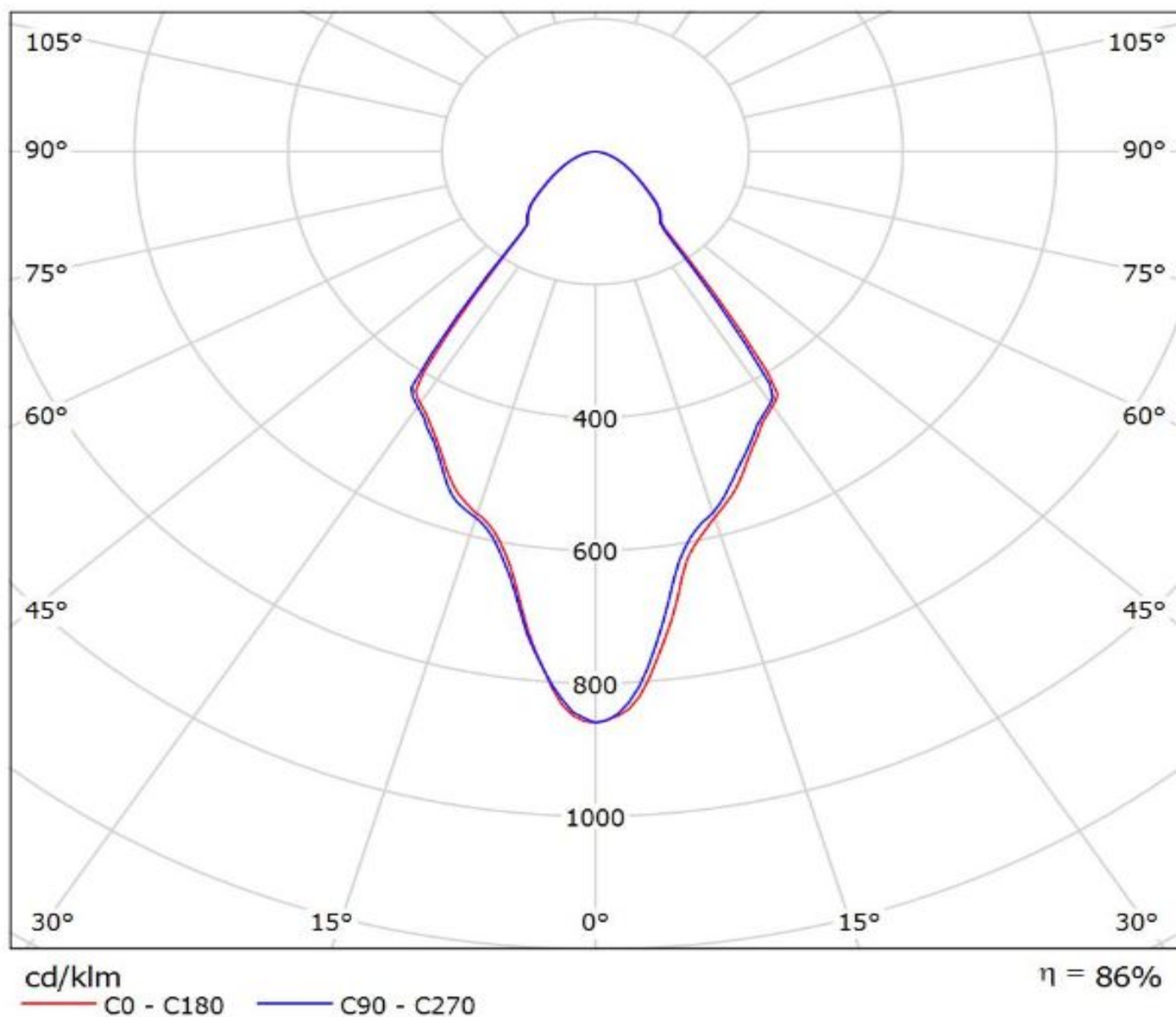
Luminaire: LEDiL Oy FCN14311_BARBARA-XW-PF-VERO13/18_(Soleriq P13)
Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)_921.649lm@250mA_CCT=3500K_P=8.8097W_I=0.25A



Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(P6) / LDC (Polar)

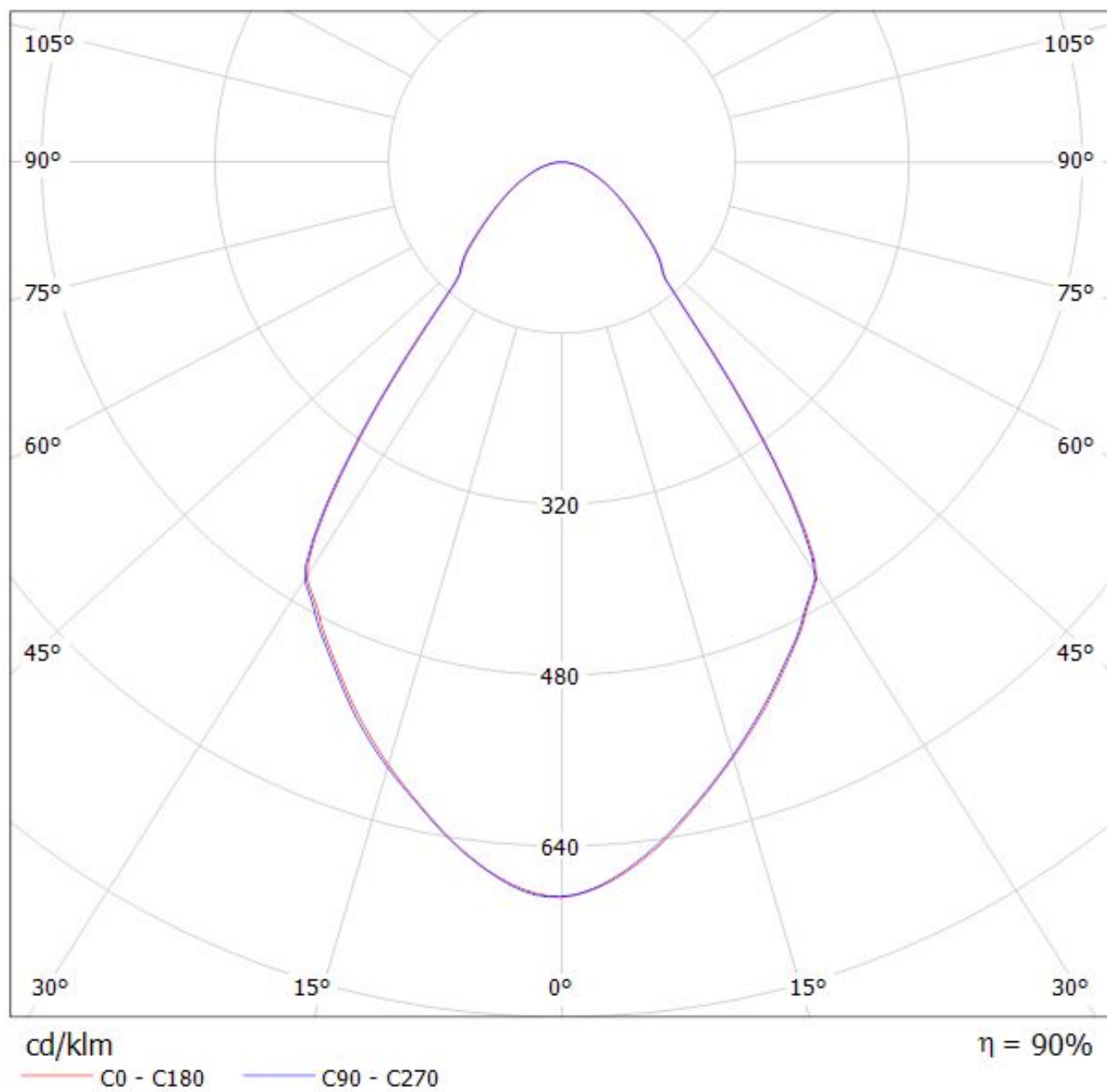
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(P6)

Lamps: 1 x Osram_Solericq_P6_(GW_MAEGB1.EM)_504.127lm@250mA_P=6.28598W_I=0.25A



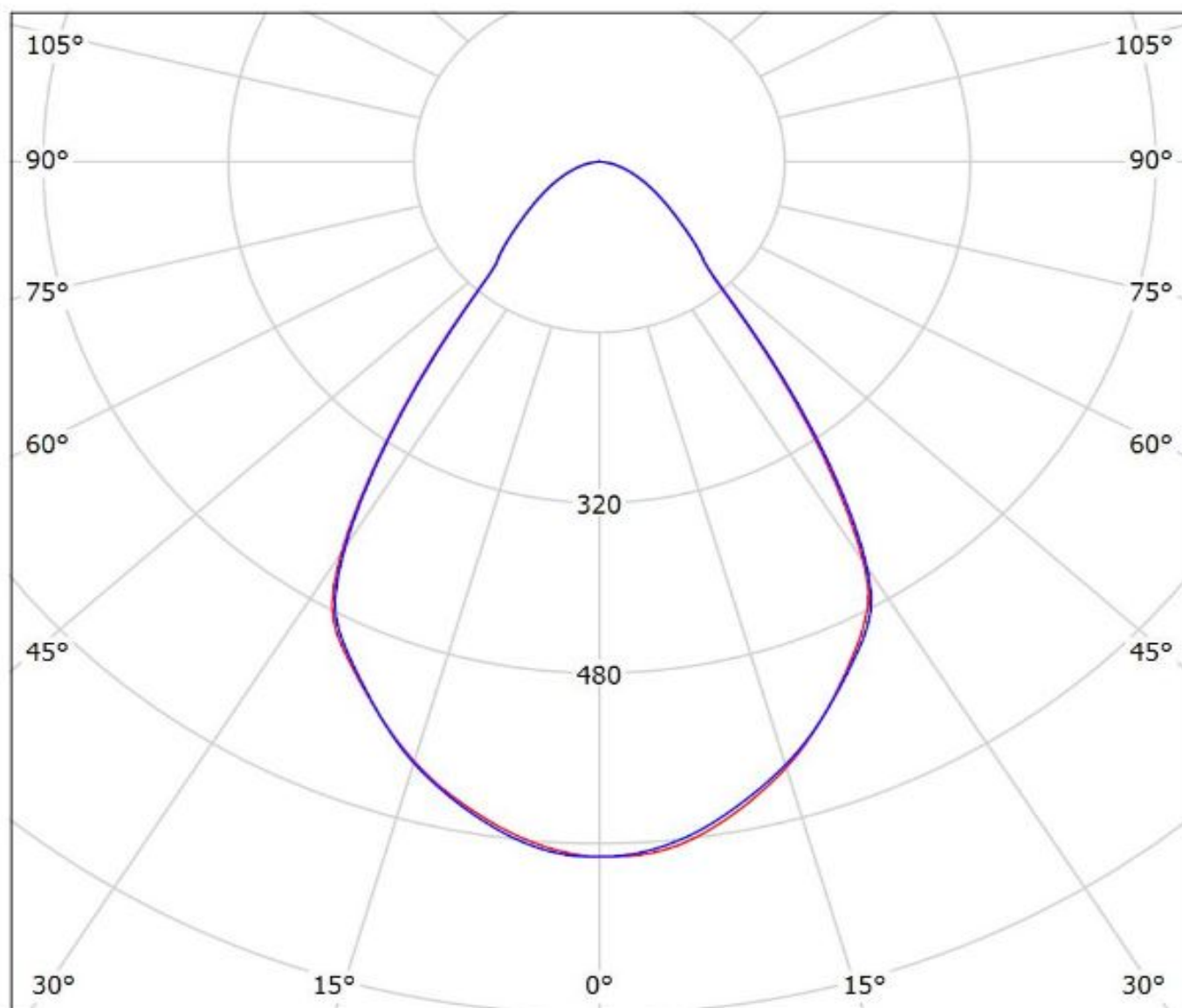
Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13-18_(Soleriq_S13)

Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_931.029lm@250mA_P=7.44679W_I=250mA



Luminaire: Ledil FCN14311_BARBARA-XW-PF-VERO13/18_(LC040B)_(450_Typ_L2)_(C13709)

Lamps: 1 x Samsung_LC040B_(SPHWW1HDNE25010101)_CCT=3000k_(450_Typ_L2)_(C13709_PF-SOCKET-VERO13-18)_1115.79lm@250mA_P=8.075W_I=0.25A



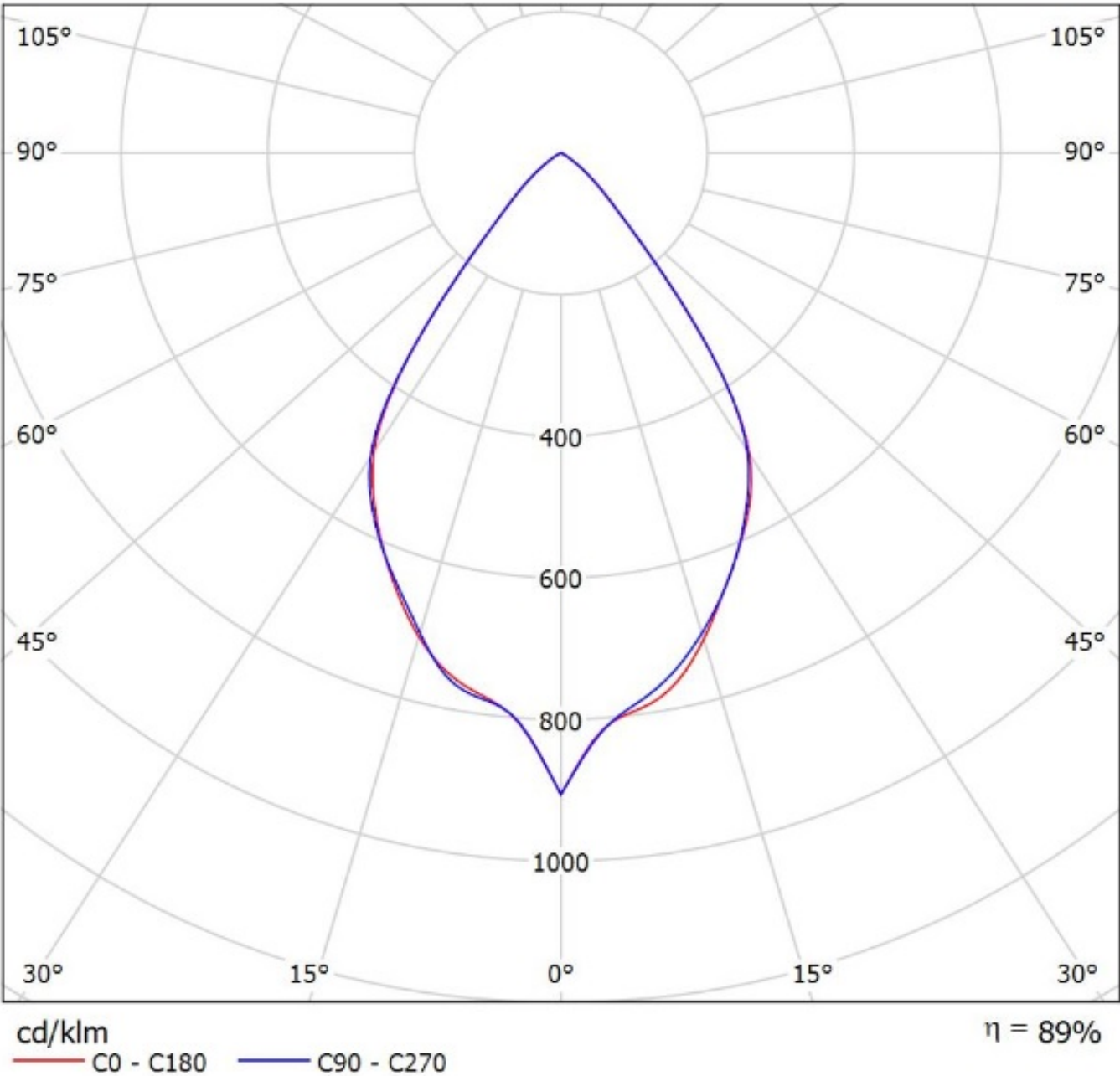
cd/klm

— C0 - C180

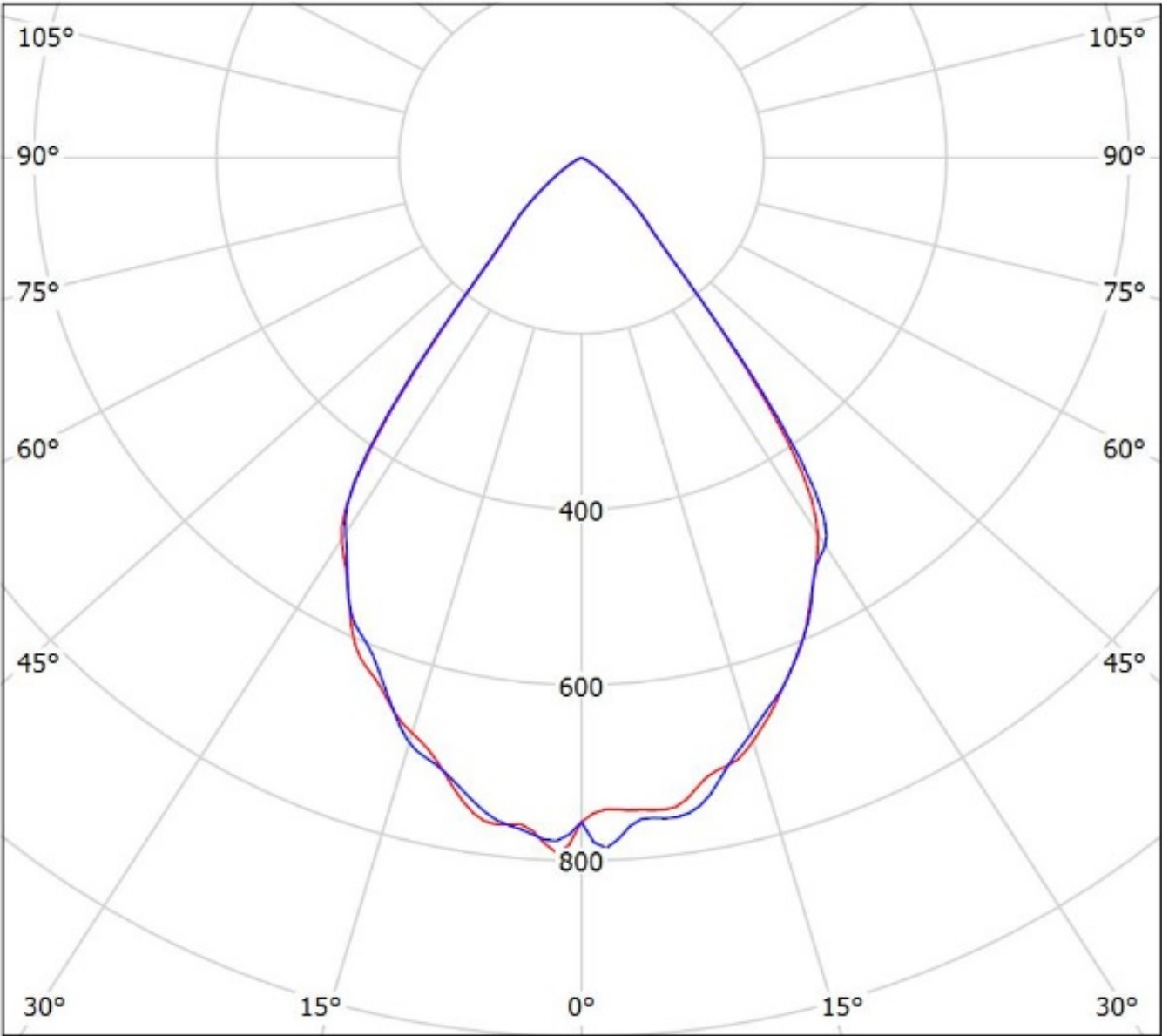
— C90 - C270

$\eta = 89\%$

Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC010C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1



Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC020C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



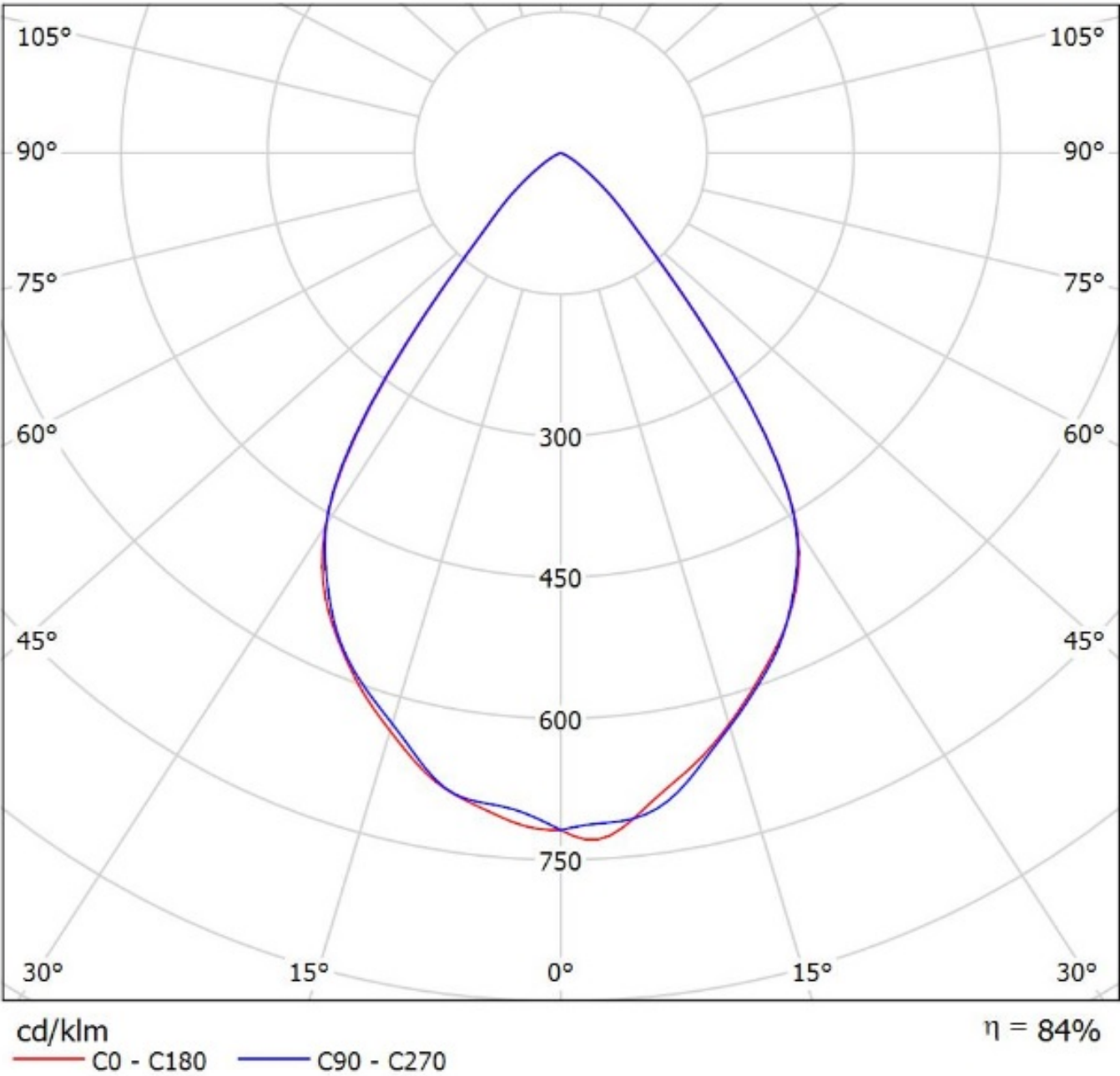
cd/klm

— C0 - C180

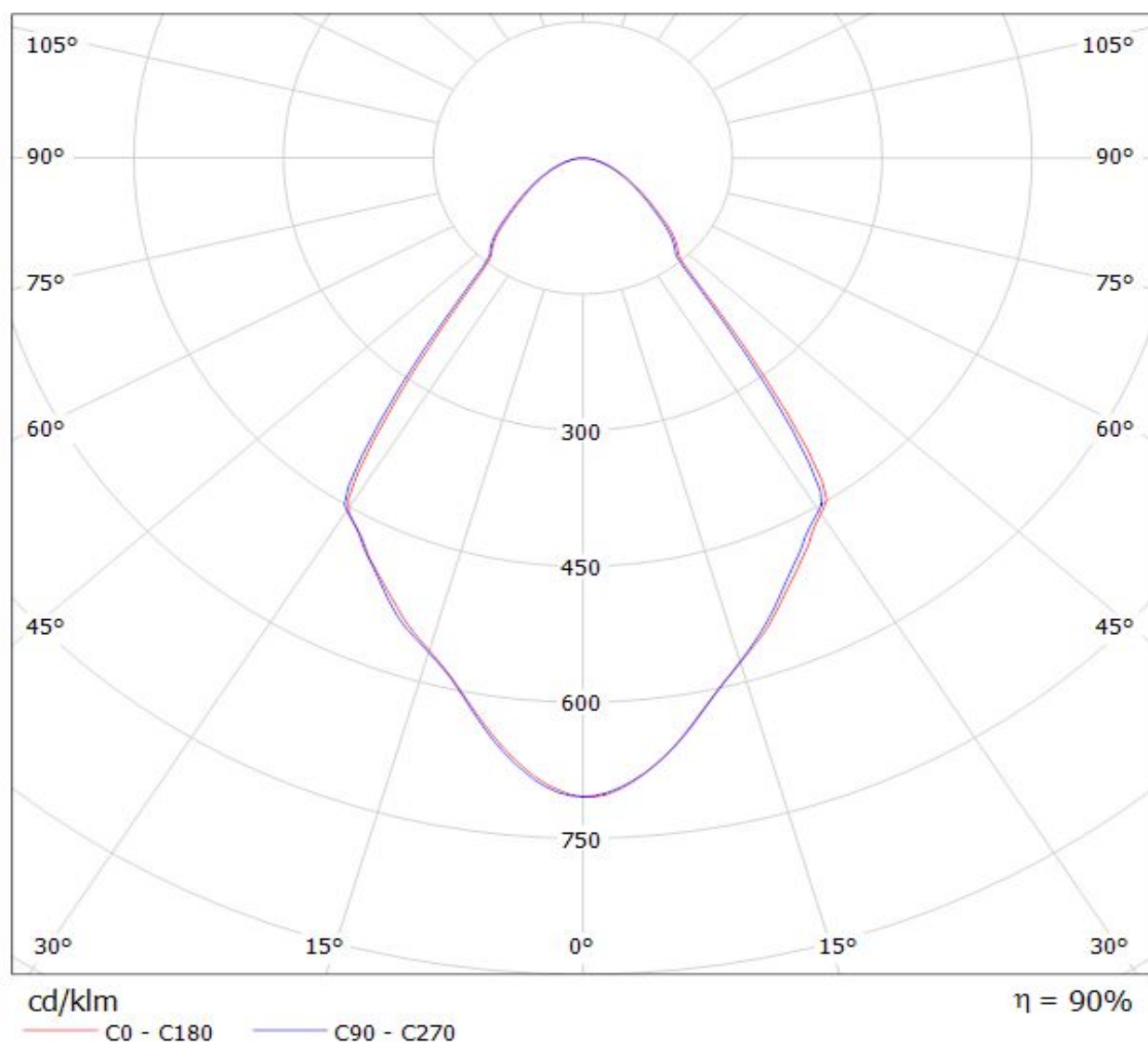
— C90 - C270

$\eta = 88\%$

Luminaire: Ledil Oy FCN14311_BARBARA-XW-PF-VERO13-18_(LC040C)_(B+W_480_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 Type L1



Luminaire: LEDiL Oy FCN14311 BARBARA-XW-PF-VERO13/18_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1142.55lm@250mA_P=8.4070W_I=0.250A



NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

GENERAL INFORMATION

- Product series especially designed & optimized for series of LEDs.
- Special care taken to make light distribution as uniform as possible.

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.